

From: Pak, Michael  
Sent: Friday, April 11, 2003 2:59 PM  
To: STIC-Biotech/ChemLib  
Subject: 09/276,935 sequence search

Sequence search - 2 month amendment  
App. #: 09/276,935  
Result format: Paper.  
Title: an orphan nuclear receptor

Please search:

Search interference database.

SEQ ID NO:14  
SEQ ID NO:14(a.a. 141-434)  
SEQ ID NO:14(a.a. 130-434)

**TOP 40 hits.**

Thanks,

Mike Pak

Michael Pak  
Art Unit 1646  
**Mailbox: CM1, Rm. 10D19 (SPE office, Bonnie Eyler)**  
Office: CM1, Rm. 10E13  
703-305-7038

Michael Pak  
USPTO  
Art Unit 1646  
CM1; Rm. 10E13  
703-305-7038

TYPE OF SEARCH:

Searcher: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Location: \_\_\_\_\_  
Date Picked Up: 4/14/03  
Date Completed: 4/16/03  
Searcher Prep/Review: \_\_\_\_\_  
Clerical: \_\_\_\_\_  
Online time: \_\_\_\_\_

NA Sequences: \_\_\_\_\_  
AA Sequences: 3  
Structures: \_\_\_\_\_  
Bibliographic: \_\_\_\_\_  
Litigation: \_\_\_\_\_  
Full text: \_\_\_\_\_  
Patent Family: \_\_\_\_\_  
Other: \_\_\_\_\_

VENDOR/COST (where applic.)

STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
Questel/Orbit: \_\_\_\_\_  
DRLink: \_\_\_\_\_  
Lexis/Nexis: \_\_\_\_\_  
Sequence Sys.: Q2  
WWW/Internet: \_\_\_\_\_  
Other (specify): \_\_\_\_\_



# BioTech-Chem Library

## Search Results

### Feedback Form (Optional)



Scientific & Technical Inform

The search results generated for your recent request are attached. If you have any questions or comments (compliments or complaints) about the scope or the results of the search, please contact *the Bio1 searcher* who conducted the search *or contact*:

Mary Hale, Supervisor,  
CM-1 Room 1E01

---

#### *Voluntary Results Feedback Form*

➤ *I am an examiner in Workgroup:* (Example: 1610)

➤ *Relevant prior art found, search results used as follows:*

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

*Types of relevant prior art found:*

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ *Relevant prior art not found:*

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Search results were not useful in determining patentability or understanding the

**Other Comments:**

---

Drop off completed forms at the Circulation Desk CM-1, or send to Mary Hale, CM1-1E01 or [mary.hale@uspto.gov](mailto:mary.hale@uspto.gov)



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com protein - protein search, using sw model

Run on: April 15, 2003, 11:21:47 ; Search time 17.1249 Seconds  
(without alignment)

Title: US-09-276-9351-14\_COPY\_130\_434

Sequence: I SRRGTQPIQVGLIEPKM.....GDHIEATPLMGEFGTTS 305

### Scoring table:

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H10SIM52
Gapop 10.0 , Gapext 0.5

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Searched: 248812 seqs, 61136040 residues

Total number of hits satisfying chosen parameters: 248612

Minimum length: 100  
Minimum seq length: 20

Maximum DH seq length: 2000000000

Post-processing: Minimum Match

Listed first 45 summaries

Patience

Published\_Applications\_AA: \*

- 1: /csm2\_6/p/iodata/a2/pub/pba/NS08\_NEW\_PUB\_P04\_P0P\_\*
- 2: /csm2\_6/p/iodata/a2/pub/pba/NS08\_NEW\_PUB\_P04\_P0P\_\*
- 3: /csm2\_6/p/iodata/a2/pub/pba/NS06\_NEW\_P08\_P0P\_\*
- 4: /csm2\_6/p/iodata/a2/pub/pba/NS06\_NEW\_P08\_P0P\_\*
- 5: /csm2\_6/p/iodata/a2/pub/pba/NS07\_NEW\_P08\_P0P\_\*
- 6: /csm2\_6/p/iodata/a2/pub/pba/NS07\_NEW\_P08\_P0P\_\*
- 7: /csm2\_6/p/iodata/a2/pub/pba/NS07\_NEW\_P08\_P0P\_\*
- 8: /csm2\_6/p/iodata/a2/pub/pba/NS08\_NEW\_P08\_P0P\_\*
- 9: /csm2\_6/p/iodata/a2/pub/pba/NS09\_NEW\_P08\_P0P\_\*
- 10: /csm2\_6/p/iodata/a2/pub/pba/NS10\_NEW\_P08\_P0P\_\*
- 11: /csm2\_6/p/iodata/a2/pub/pba/NS10\_NEW\_P08\_P0P\_\*
- 12: /csm2\_6/p/iodata/a2/pub/pba/NS10\_NEW\_P08\_P0P\_\*
- 13: /csm2\_6/p/iodata/a2/pub/pba/NS10\_NEW\_P08\_P0P\_\*
- 14: /csm2\_6/p/iodata/a2/pub/pba/NS10\_NEW\_P08\_P0P\_\*

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

## SİJMAK I ES

Result	No.	Score	Query	Match	Length	DB	ID	Description
1	1585	100.0	444	9	05-09-143-828-2			Sequence 4, Appl 1
2	1585	100.0	473	9	05-09-143-828-4			Sequence 4, Appl 1
3	1467	92.6	3	9	05-09-227-718-2			Sequence 2, Appl 1
4	592	37.4	386	9	05-10-153-827-2			Sequence 2, Appl 1
5	479.5	30.3	257	10	05-09-814-569-1			Sequence 1, Appl 1
6	479.5	30.3	348	10	05-09-760-364-1			Sequence 1, Appl 1
7	466.5	29.4	359	10	05-09-760-364-9			Sequence 9, Appl 1
8	442.5	27.3	358	10	05-09-783-384-2			Sequence 2, Appl 1
9	282	17.8	286	10	05-09-783-384-2			Sequence 2, Appl 1
10	282	17.8	446	10	05-09-760-364-3			Sequence 4, Appl 1
11	248.5	15.7	446	10	05-09-909-446-2			Sequence 2, Appl 1
12	248.5	15.7	446	10	05-09-909-446-2			Sequence 2, Appl 1
13	248.5	15.7	446	10	05-09-909-446-2			Sequence 2, Appl 1
14	248.5	15.7	446	10	05-09-909-446-2			Sequence 2, Appl 1
15	248	15.6	446	12	05-10-013-824-2			Sequence 2, Appl 1
16	241.5	15.2	476	9	05-10-188-721-3			Sequence 3, Appl 1
17	241.5	14.6	469	9	05-10-155-479-2			Sequence 2, Appl 1
18	201	12.7	448	9	05-09-814-604-2			Sequence 4, Appl 1
19	201	12.7	448	10	05-09-799-727-4			Sequence 4, Appl 1

## ACKNOWLEDGMENTS

	20	200	12.6	462	9	US-09-814-604-1	Sequence 1, App1
	21	200	12.6	462	9	US-09-797-727-8	Sequence 4, App1
	22	198	12.5	272	9	US-09-921-650-48	Sequence 24, App1
	23	198	12.5	272	10	US-09-874-489-28	Sequence 25, App1
	24	198	12.5	549	10	US-09-965-703-18	Sequence 16, App1
	25	198	12.5	550	9	US-09-853-450-18	Sequence 18, App1
	26	198	12.5	584	10	US-09-965-703-17	Sequence 17, App1
	27	198	12.5	625	10	US-09-965-703-16	Sequence 16, App1
	28	198	12.5	746	9	US-09-042-4888-5	Sequence 5, App1
	29	198	12.5	746	9	US-09-042-4888-7	Sequence 7, App1
	30	198	12.5	1041	9	US-09-042-4888-9	Sequence 9, App1
	31	194.5	12.2	343	10	US-09-965-703-20	Sequence 20, App1
	32	189.5	12.0	688	9	US-09-941-0072A-1	Sequence 1, App1
	33	189.5	12.0	750	9	US-10-005-337A-1	Sequence 4, App1
	34	189	11.9	505	10	US-09-765-111A-16	Sequence 16, App1
	35	189	11.9	516	10	US-09-845-840-2	Sequence 2, App1
	36	189	11.9	777	10	US-09-765-111A-2	Sequence 2, App1
	37	189	11.9	811	10	US-09-765-111A-24	Sequence 24, App1
	38	189	11.9	840	10	US-09-765-111A-6	Sequence 6, App1
	39	189	11.9	874	10	US-09-765-111A-6	Sequence 4, App1
	40	188.5	11.9	445	10	US-09-965-703-19	Sequence 6, App1
	41	188	11.9	475	12	US-10-142-473-2	Sequence 2, App1
	42	187.5	11.8	606	10	US-09-952-559-4	Sequence 3, App1
	43	186	11.7	478	10	US-09-765-111A-27	Sequence 27, App1
	44	180	11.7	506	12	US-10-109-886-6	Sequence 6, App1
	45	178.5	11.3	297	10	US-09-925-297-645	Sequence 645, App1

ALIGNMENTS

RESULT 1	
US-09-143-828-2	Sequence 2, Application US/09143828
US-09-143-828-2	Publication No. US20040032790A1
GENERAL INFORMATION:	
APPLICANT: Pharmacia & Upjohn	
TITLE OF INVENTION: No. US20030032790A1 Vitamin D Receptor Related Polypeptides	
FILE REFERENCE: 10806-65	
CURRENT APPLICATION NUMBER: US/09/143-828	
CURRENT FILING DATE: 1998-08-31	
NUMBER OF SEQ ID NOS: 4	
SOFTWARE: Patent In Ver. 2.0	
SEQ ID NO 2	
LENGTH: 444	
TYPE: PRT	
ORGANISM: Artificial Sequence	
FEATURES:	
OTHER INFORMATION: Description of Artificial Sequence: [produced amino acid sequence of vitamin D receptor related domain]	
OTHER INFORMATION: (Vibrio)	
US-09-143-828-2	

Query Match	100.0%	Score 1565,	Bf 97	Length 444.
Best Local Similarity	100.0%	Pred. No. 8,66+1565		
Matches 3057	Conservative 07	Mismatches 07	Gaps 07	
QY	1	SERGIQPLGVGDTLPEFGNMLREIMDAQMKEFOTFSFKKPKRLPGVSSSGPFLPSDQ	60	
BL	130	SRIETGLPVAVLTLEEQNMILREIMDAQMKFTDFISHKKNRKLGGVSSAGELPSDQ	189	
QY	61	AISRREAARMSVRKRLLGSLSKYSLQIRGEASVMNKRPADSGCKEFESLDIWMALNSLY	120	
LB	190	AISRREAARMSVKRKLGSLSKYSLLQIRKGDSGVMMKKRPALSNGKFTLSLDIWMALNSLY	249	
QY	121	MKRGIISTARVIVFRDLPTLEQGISLKGAATFLQLPRNTFMNLGTWEGKSYTLE	180	
LB	250	MKRGIIISPAKVIVSRDLPTLEQGISLKGAATFLQLPRNTFMNLGTWEGKSYTLE	409	
QY	181	ITAGAGTGQGLLEPMIKRNIMKKLIJHEFEFYLMQALSLSPDGKRVGNHKKVVLQIQAF	248	
LB	310	DTAGAGTGQGLLEPMIKRNIMKKLIJHEFEFYLMQALSLSPDGKRVGNHKKVVLQIQAF	409	



```

1      FILING DATE: 17-JAN-1995
2
3      ATTORNEY/AGENT INFORMATION:
4
5      NAME: Reiter, Stephen E.
6      REGISTRATION NUMBER: 43,192
7      REFERENCE/DOCKET NUMBER: P41 9887
8
9      TELECOMMUNICATION INFORMATION:
10
11     TELEPHONE: 619-677-1409
12
13     TELEFAX: 619-677-1465
14
15     INFORMATION FOR SEQ ID NO: 2:
16
17     SEQUENCE CHARACTERISTICS:
18
19     LENGTH: 386 amino acids
20
21     TYPE: amino acid
22
23     TOPOLOGY: linear
24
25     MOLECULE TYPE: protein
26
27     SEQUENCE DESCRIPTION: SEQ ID NO: 2:
28
29     US-10-153-827-2

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Query Match	Score 592;	DB #	Length 306;
Best Local Similarity	44.88;	Freq. No.	4,60-53;
Matches	127;	Conservative	46;
		Mismatches	71;
		Indels	46;
		Gaps	5

0Y	14	LEDEKMMI	REIMADOMKREED	TESIKENK	RIKIVGVSIG	DELESADSE	SEPAKASOV	74
	11	11	11	11	11	11	11	
0b	138	LEPQOHNLTGV	VAHAKI	KI	PHN	TESSKFR	-----	171
0Y	74	KKIDLO	SKVSI	LOKID	OVNV	MYKPR	ADSO	144
0b	172	-----	-----	-----	-----	-----	-----	218
0Y	144	YEROLP	ELI	OSIL	SGA	AFED	QULPEN	192
0b	214	YKRSID	LOITDQ	DALIK	SVAS	VSUT	REIN	273
0Y	193	PMUKH	YVMI	KKI	QULHE	EVY	LMCA	252
0b	274	PLVAK	HEMMK	RI	NOVSE	EVY	AMMA	343
0Y	253	-----	-----	-----	-----	-----	-----	301
0b	334	PEPVSQ	KKLL	YK	TR	CE	TEL	384

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1 RESULT 5
2 US-09-814-569-1
3
4 Sequence 1, Application US/09814569
5 Patent No. US2010055615A1
6
7 GENERAL INFORMATION:
8
9 APPLICANT: Parks, Derek J.
10 APPLICANT: Collins, Jon L.
11 TITLE OF INVENTION: Receptor
12 FILE REFERENCE: P13854
13
14 CURRENT APPLICATION NUMBER: US/09/814-569
15
16 CURRENT FILING DATE: 2001-03-22
17
18 PRIOR APPLICATION NUMBER: 60/191,403
19
20 PRIOR FILING DATE: 2000-03-23
21
22 NUMBER OF SEQ ID NOS: 3
23
24 SOFTWARE: FASTSEQ for Windows Version 4.0
25
26 SEQ ID NO: 1
27
28 LENGTH: 257
29
30 TYPE: PRT
31
32 ORGANISM: homo sapiens
33
34 FEATURE:
35 NAME/KEY: PEPTIDE
36 LOCATION: (1)...(11)
37
38 OTHER INFORMATION: modified histidine tag
39
40 US-09-814-569-1

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Query Match Similarity   40: 36; Score 479.5; DR 10; Length 257;
Post Local Similarity    89.08%; Prod. No. 1,1e-41;
Matches 112; Conservative 40; Methods 88; Models 47; Caps 4
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Db	15	LSKDEELIETLITCAHIEPHIMETPEOYBOPEAHLETHHO	PLPCTAT	----	62
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Db	63	-----	ALPVTBPAIDINTBVQVETFKILP	89	
Qy	134	YFRDLPEDOTSLKGAAFICOLRENTVENAFTWETWETSTAG	GRQOULLE	194	
Db	90	VERSLPEITOUJSLIKGAVALCHIVINTPELOJONFICGLKAT	DEKAGAVOVCHET	14	
Qy	193	PMKHTYMLKQILHEPEYVIMQALISLSPBPSVUOLHVVOLQVOBAPILKSYETONK	255		
Db	150	LIFPHQILKQILQOEPYVILAMALPSPBPVOTQOEDPILQOEMALLOSYKQOQ	205		
Qy	253	POPAHEETLEIKIMATLEIKSINAOHTORILQILHIEFATHEMEL	299		
Db	210	KRFKREKILYAKILGILATKESINAYOVUOLHLOLSAM	MPTLOEL	255	

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1  RESULT 6
2  US-09-760-364-1
3  Sequence 1, Application US/09760364
4  Patent No. US20020152479A1
5  GENERAL INFORMATION:
6  APPLICANT: Lechmann, Joergen Michael
7  APPLICANT: Schiav, Andrew Kwan Nan
8  APPLICANT: Tularik Inc.
9  TITLE OF INVENTION: Hypothalamic/ovarian
10 TITLE OF INVENTION: GnRH Modulators: Screening and Treatment of
11 FILE REFERENCE: 016781-004100US
12 CURRENT APPLICATION NUMBER: US/09760,364
13 CURRENT FILING DATE: 2001-01-12
14 PRIOR FILING DATE: 2000-01-14
15 PRIOR FILING DATE: 2000-01-14
16 NUMBER OF SEQ ID NOS: 14
17 SOFTWARE: PatentIn Ver. 2.1
18 SEQ ID NO 1
19 LENGTH: 448
20 TYPE: PRT
21 ORGANISM: Homo sapiens
22 FEATURE:
23 OTHER INFORMATION: human constitutive androstane receptor (CAR) alpha
24 US-09-760-364 1

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Query Match#	Score	DB ID#	Length
1	39.08	30	412
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3	39.08	32	412
4	39.08	33	412
5	39.08	34	412
6	39.08	35	412
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103	39.08	132	412
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105	39.08	134	412
106	39.08	1	

RESULT 7  
US 09-760-464-9  
; Sequence 9, Application US/09760364





[illegible]

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1      PRIOR APPLICATION DATA:
2      FILING DATE: <UNKNOWN>
3      APPLICATION NUMBER: 08/776,844
4      FILING DATE: <UNKNOWN>
5      APPLICATION NUMBER: 08/941,953; 2
6      FILING DATE: 16-AUG-1994
7      ATTORNEY/AGENT INFORMATION:
8      NAME: KATANO, Sarah A.
9      REGISTRATION NUMBER: 32141
10     REFERENCE/DOCKET NUMBER: 00487, 04029
11     TELECOMMUNICATION INFORMATION:
12     TELEPHONE: 202-508-9100
13     TELEFAX: 202-508-9299
14     TELFX: <UNKNOWN>
15     INFORMATION FOR SEQ ID NO: 2:
16     SEQUENCE CHARACTERISTICS:
17     LENGTH: 446 amino acids
18     TYPE: amino acid
19     STRANDEDNESS: single
20     TOPOLOGY: linear
21     MULTIPLE TYPE: protein
22     SEQUENCE DESCRIPTION: SEQ ID NO: 2:
23     DS-09-909-446-2
24
25     QUERY MATCH: 15.7%; SCORE 248.5; IN 10; LENGTH 446;
26     Post Local Similarity: 25.9%; Prod. No. 2.1e-17;
27     Matches: 81; Conservative: 55; Mismatches: 10%; Gaps: 71; Gaps: 11;
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29     QY 5 GTPYASVGS-----TTEGRNNLELMQMKTFPTFSERNRDLVLSNCELP 96
30         11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
31     DQ 148 GTSASGSGSRGRIQITAAQELMIOGVAAQIQCKNRKFS ----- 229
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33     QY 57 PSTGASRSTPAKKKQVGRKID/SIKVSIQIKRSDSVNRYKIPAS/SKRIETSLILHMAD 116
34         11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
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37     QY 117 MSTYMKLTSTAKVYSFROLEPIKQISLKGAAFLQGLKENVFNAGETMWP 172
38         11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
39     DQ 259 LALTSVQELVDPAAKYVSGTGLQGRQNALIKASITLIMLETFARKYNET 371
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41     QY 174 GRLSYV; EITLAPVQGLLEPMLKREHYMKKIQHEFEYVLMQALSTSPSPQV 281
42         11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
43     DQ 316 KRPYSKQDHRHAGQVVERINLPFSNARRKLGIDAAAYALLAINLPASIRFVGRS 375
44         11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
45     QY 242 VVDVQVQFATLLKSYFENRDPVAHRELPKTMAMTLEKSTINQVGR; LKLGQTH 289
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47     DQ 376 REVALQGVYFVALSTIKRIPQGRK; FPRMLKIVSLKLTSSVSHQVVALKLP 441
48         11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
49     QY 290 PEAFLPMLKRL 402
50         11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
51     DQ 442 KRLDPLSTWIV 444
52
53 RESULT 12
54 DS-09-909-425-2
55 Sequence 2, Application DS-09-909-425
56 Patent No.: US20020115847A1
57 GENERAL INFORMATION:
58 APPLICANT: ENMARK, EVA
59 CUSTASSON, JAN
60 TITLE OF INVENTION: TO THE NUCLEAR REFLECTOR FAMILY
61 NUMBER OF SEQUENCES: 11
62 CORRESPONDENT'S ADDRESS:
63 ADDRESSEE: BARDET & WITCOFF
64 STREET: 1001 G STREET, NW
65 CITY: WASHINGTON
66 STATE: DC
67 COUNTRY: USA
68 ZIP: 20001
69 COMPUTER READABLE FORM:
70 MEDIUM TYPE: DISKETTE
71 COMPUTER: IBM Compatible
72 OPERATING SYSTEM: DOS

```

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1  SOFTWARE: FastSeq for Windows Version 2.0
2  CURRENT APPLICATION DATA:
3  APPLICATION NUMBER: US/09/909,429
4  FILING DATE: 19 Jul 2001
5  CLASSIFICATION: Unknown
6  PRIOR APPLICATION DATA:
7  APPLICATION NUMBER: 08/176,844
8  FILING DATE: Unknown
9  APPLICATION NUMBER: 08/445,562
10 FILING DATE: 16 Aug 1994
11 ALIENEY/AGENT INFORMATION:
12 NAME: Kagan, Sarah A
13 REGISTRATION NUMBER: 42141
14 REFERENCE/DOC REF NUMBER: 00487,04029
15 TELECOMMUNICATION INFORMATION:
16 TELEPHONE: 202,508,9100
17 TELEFAX: 202,508,9299
18 TELETYPE: Unknown
19 INFORMATION FOR SEQ ID NO: 2:
20 SEQUENCE CHARACTERISTICS:
21 LENGTH: 446 amino acids
22 TYPE: amino acid
23 STRANDEDNESS: single
24 TOPOLOGY: linear
25 MOLECULE TYPE: protein
26 SEQUENCE DESCRIPTION: SEQ ID NO: 2:
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TITLE OF INVENTION: RECEPTOR INTERACTING PROTEIN GENE DISRUPTIONS  
 FILE REFERENCE: R-684  
 CURRENT APPLICATION NUMBER: US/10/013,823  
 CURRENT FILING DATE: 2001-12-10  
 PRIOR APPLICATION NUMBER: US 60/254,801  
 PRIOR FILING DATE: 2000-12-11  
 PRIOR APPLICATION NUMBER: US 60/409,404  
 PRIOR FILING DATE: 2001-07-11  
 NUMBER OF SEQ ID NOS: 5  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO: 2  
 LENGTH: 446  
 TYPE: PRT  
 ORGANISM: Mus musculus  
 US-10-013-823-2

Query Match 15.7% Score 248.5; DB 12; Length 446;  
 Best Local Similarity 25.9%; Pred. No. 2,16-17;  
 Matches 81; Conservative 55; Mismatches 106; Indels 71; Gaps 11;

QY 5 GTGPGVGG-----TFEQMMIRFLMAQMKTTDTTSHKKNRFLRGVLSGTELP 56  
 DB 188 GTSVASSGSGEDGTLTIAQGLMIOGVAAQIQCKRSPS----- 229  
 QY 57 ESTLQASREFAKWSQVKKDLSLKVSLQKGLKSWVWVKKPDAQSGKELESLHMA 116  
 DB 240 -----DQPKYTPW-----LQAD-----PQSRDAQQKFA---HFTL 256  
 QY 117 MSTMEKGLISPAVAVSYERFLPLEDQISLKGAFFLQIRENVNAGITWEC--- 172  
 DB 259 LAISVQVLPFAKQVMPFQIQGRDQIALKASTIEIMLETARKVNHET---EITTEL 315  
 QY 173 GRLSVCLSD-TAGGPOULLFPMLEKFMKLLKQIHFEFYLMAISLFSIDRGVQIHR 241  
 DB 316 KQFTTSKIDFRAGLQVEEINPFEFSAMRLGLDQEVALLIATINFSADRPVQVPS 375  
 QY 212 VVDQIQEQFATLEKSYIEGNNQVHARELFLKIMAMLETLSINAQHTQRL--LRIGDIH 289  
 DB 376 REVALQGVYVALLSYTRIKRPQDLR--FPRMLKLVSLKTSVNSQGVALLRIQD-- 431  
 QY 290 FFATLQKQELFGI 302  
 DB 442 KKLPLSLSEIMQV 444

RESULT 15  
 US-10-013-823-3

Sequence 3, Application US/10019823  
 Patent No. US20020116741A1  
 GENERAL INFORMATION:  
 APPLICANT: Guenther, Catherine  
 APPLICANT: Phillips, Russell  
 APPLICANT: Allen, Keith D.  
 APPLICANT: Zhang, Qiu  
 APPLICANT: Barthault, Helene  
 TITLE OF INVENTION: TRANSGENIC MICE CONTAINING RETINOID X  
 TITLE OF INVENTION: RECEPTOR INTERACTING PROTEIN GENE DISRUPTIONS  
 FILE REFERENCE: R-684  
 CURRENT APPLICATION NUMBER: US/10/013,823  
 CURRENT FILING DATE: 2001-12-10  
 PRIOR APPLICATION NUMBER: US 60/254,801  
 PRIOR FILING DATE: 2000-12-11  
 PRIOR APPLICATION NUMBER: US 60/409,404  
 PRIOR FILING DATE: 2001-07-11  
 NUMBER OF SEQ ID NOS: 5  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO: 3  
 LENGTH: 461  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-10-013-823-3

Query Match 15.6% Score 248; DB 12; Length 461;

Best Local Similarity 26.7%; Pred. No. 2,4e-17;  
 Matches 80; Conservative 55; Mismatches 103; Indels 44; Gaps 11;

QY 10 GVOGTLFEGQMMIREMIAQMKTFDTTSHKKNRFLRGVLSGTELPISQASREFAK 69  
 DB 217 GVO-TLFAAGFLMIOGVAAQIQCKRSPS----- 241  
 QY 70 WSGVRKRLQSLKVSQIQGRGSGVWVKKPDAQSGKELESLHMA 129  
 DB 252 WP-----LQAD-----PQSRDAQQKFA---HFTLALISVQVLPFA 286  
 QY 140 KVISYERFLPLEDQISLKGAFFLQIRENVNAGITWEC---GRISVQLEP- 184  
 DB 287 KQVNGFLQGRDQIALKASTIEIMLETARKVNHET---EITTELQVTSKIDFR 444  
 QY 185 GPOULLFPMLEKFMKLLKQIHFEFYLMAISLFSIDRGVQIHRVQVQIQEFA 244  
 DB 344 GLQVEFNIPFEFSAMRLGLDQEVALLIATINFSADRPVQVQVFA 404  
 QY 245 KSYIEGNNQVHARELFLKIMAMLETLSINAQHTQRL--LRIGDIHPVAT 402  
 DB 404 LSTRIKRPQDLR--FPRMLKLVSLKTSVNSQGVALLRIQD--KKLPLSLSEIM 454

RESULT 16  
 US-10-188-721-1

Sequence 1, Application US/10188721  
 Publication No. US20040019186A1  
 GENERAL INFORMATION:  
 APPLICANT: BAUER, DIRKE  
 APPLICANT: CHEURVALLE, ZACHARY  
 APPLICANT: DEUSCHLE, DIRICH  
 APPLICANT: DNEPROVSKAYA, ELENA  
 APPLICANT: GAHMANN, TIM  
 APPLICANT: GIEGRICH, KRISTINA  
 APPLICANT: HANEGAR, RONNIE  
 APPLICANT: HERBERT, NORMAN  
 APPLICANT: KIELEY, JOHN  
 APPLICANT: KOBER, INGO  
 APPLICANT: KOTL, MANFRED  
 APPLICANT: KRANZ, HARALD  
 APPLICANT: KREMSER, CLAUS  
 APPLICANT: LEI, MATTHEW R.  
 APPLICANT: OTTE, KERSTIN  
 APPLICANT: SAGE, CARLTON  
 APPLICANT: SUD, MANISH  
 TITLE OF INVENTION: NOVEL RECEPTOR BINDING COMPOUNDS  
 FILE REFERENCE: 54904-29  
 CURRENT APPLICATION NUMBER: US/10/188,721  
 CURRENT FILING DATE: 2002-07-01  
 NUMBER OF SEQ ID NOS: 5  
 SOFTWARE: Patent to Ver. 2.1  
 SEQ ID NO: 1  
 LENGTH: 476  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-10-188-721-1

Query Match 15.2% Score 241.5; DB 9; Length 476;  
 Best Local Similarity 31.9%; Pred. No. 1,2e-16;  
 Matches 65; Conservative 44; Mismatches 82; Indels 13; Gaps 7;

QY 105 KEPLSLAH--MAQSTYMKGLISPAVAVSYERFLPLEDQISLKGAFFLQIRE 161  
 DB 279 KEPSAENELITETAMINQVAVPEFTKRPQDLRQVIAIKSGVAFMPFSAR 308  
 QY 162 VFNATQVWEGRGSTLQIANGPOULLFPMLEKFMKLLKQIHFEFYLMAISLFS 221  
 DB 449 IFNKRLPSGSHSLDEERKNS--GISQVYITIMESYKSGEAKMDEYVALLI 306  
 QY 222 FQKGVQIHRVVDQIQFQAFITKSYTEGKQVFAHRELEKMAELETLSINAQ 290  
 DB 397 FPKQYTRIKRQVAKIGQVLLVQIKRKHQEPQDQ--FAVTLQRLLETRFNIH 454



Matches 62; Conservative 45; Mismatches 85; Indels 6; Gaps 4;

UY 115 AINMSTYFKRILISPAKISTFHPDLPFHDQSLKGAFAELQVLPNTVNAE--TGIMW 122  
 DB 222 SGLATKCIKIVFAKKLPDPIHLSIAQJTLKAAITLILKICRYTPEDDTMFSD 241  
 UY 173 GRVSTCTIAGGQOQJLTFPMKFEVMLKKLQHFEEVLMQALISFSGRGVIOHV 242  
 DB 282 GLTNKRGQMINAGPGLIOLVTFANQLPLEMDTETLSATCLTGGDQDLPFPRK 340  
 UY 233 VDIQIQEFAITLKSYSYTCNPPQFAHRELFLKIMAMLETLSINAQHTQRLIQ-DIHPE 291  
 DB 341 VDIQIEPLTALIKIYIKRPRSKPH--MPEKILMKITLRSISAKGAEVITLKMETLGS 349  
 UY 292 ATPLMOFL 299  
 DB 399 MPELIDEM 406

RESULT 20  
 US-09-814-604-1  
 ? Sequence 1, Application US/09814604  
 ? Publication No. US20030003517A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Kilein, Elliot S.  
 ? APPLICANT: Chaudhurat Koshniba A.  
 ? TITLE OF INVENTION: Methods of detecting Dissociated Nuclear  
 ? TITLE OF INVENTION: Hormone Receptor Ligands  
 ? FILE REFERENCE: P-AR 4528  
 ? CURRENT APPLICATION NUMBER: US/09/814,604  
 ? CURRENT FILING DATE: 2001-03-22  
 ? NUMBER OF SEQ ID NOS: 52  
 ? SOFTWARE: FASTSEQ for Windows Version 4.0  
 ? SEQ ID NO 1  
 ? LENGTH: 462  
 ? TYPE: PRT  
 ? ORGANISM: Homo sapiens  
 ? US-09-814-604-1

Query Match 12.68; Score 200; DB 9; Length 462;  
 Best Local Similarity 27.08; Prod. No. 2.3e-12;  
 Matches 78; Conservative 45; Mismatches 108; Indels 58; Gaps 9;

UY 14 LTFQRMMLRELMQAKITFDITFSHPKNEFLPGVLSNGEIPESIQAPSEFAKMSGV 73  
 DB 180 LTFVQGLIKVKAHQET-----PAL-----COLKYYTNNSSDQ----- 216  
 UY 74 RKQALSKVSLQKGEQSWNKKPPADSNQKELFSLIPMAQMSLYMFKGIISEKVIS 133  
 DB 217 -----RVSL-----DILMD-----KFSLSLTKLTKIVFAKQLP 247  
 UY 134 YFRDLPFHDQSLKGAFAELQVLPNTVNAE--TGIMWGRSLSYCLEINAGFQVLL 191  
 DB 248 GFTTLIAQJTLKAAQDILILKICRYTPEDDTMFSDGTLTNQGMNAGPGLI 306  
 UY 192 EPMKFEVMLKKLQHFEEVLMQALISFSGRGVIOHVYDQIQEFAITLKSYSYTCN 251  
 DB 307 DLYVAFANQLPLEMDAETGLSATCLTGGDQDLPFPRKIMQDEPLTALIKYVPRK 346  
 UY 252 RPOVAFHFLFLKIMAMLETLSINAQHTQRLIQ-DIHPEATPLMOFL 299  
 DB 367 RPSRPH--MPEKIMKIMTLRSISAKGAEVITLKMETPGSMOPLIDEM 413

RESULT 21  
 US-09-797-727-3  
 ? Sequence 3, Application US/09747727  
 ? Patent No. US20020077457A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: The Salk Institute for Biological Studies  
 ? APPLICANT: TAKAKU, Hiromaro  
 ? TITLE OF INVENTION: GAMMA RETINOID ACID RECEPTOR  
 ? FILE REFERENCE: SALK1150-3

CURRENT APPLICATION NUMBER: US/09/797,727  
 ? CURRENT FILING DATE: 2001-08-31  
 ? PRIOR APPLICATION NUMBER: US 08/486,325  
 ? PRIOR FILING DATE: 1995-06-07  
 ? PRIOR APPLICATION NUMBER: US 08/100,039  
 ? PRIOR FILING DATE: 1993-07-30  
 ? PRIOR APPLICATION NUMBER: PCT/US90/03564  
 ? PRIOR FILING DATE: 1990-06-22  
 ? PRIOR APPLICATION NUMBER: US 07/470,407  
 ? PRIOR FILING DATE: 1989-06-22  
 ? NUMBER OF SEQ ID NOS: 7  
 ? SOFTWARE: Patent In Version 3.0  
 ? SEQ ID NO 4  
 ? LENGTH: 462  
 ? TYPE: PRT  
 ? ORGANISM: Human  
 ? FEATURE:  
 ? NAME/KEY: misc feature  
 ? OTHER INFORMATION: Human Retinoid Acid Receptor alpha (hRAK alpha)  
 US-09-797-727-3

Query Match 12.68; Score 200; DB 10; Length 462;  
 Best Local Similarity 27.08; Prod. No. 2.3e-12;  
 Matches 78; Conservative 45; Mismatches 108; Indels 58; Gaps 9;

UY 14 LTFQRMMLRELMQAKITFDITFSHPKNEFLPGVLSNGEIPESIQAPSEFAKMSGV 73  
 DB 180 LTFVQGLIKVKAHQET-----PAL-----COLKYYTNNSSDQ----- 216  
 UY 74 RKQALSKVSLQKGEQSWNKKPPADSNQKELFSLIPMAQMSLYMFKGIISEKVIS 133  
 DB 217 -----RVSL-----DILMD-----KFSLSLTKLTKIVFAKQLP 247  
 UY 134 YFRDLPFHDQSLKGAFAELQVLPNTVNAE--TGIMWGRSLSYCLEINAGFQVLL 191  
 DB 248 GFTTLIAQJTLKAAQDILILKICRYTPEDDTMFSDGTLTNQGMNAGPGLI 306  
 UY 192 EPMKFEVMLKKLQHFEEVLMQALISFSGRGVIOHVYDQIQEFAITLKSYSYTCN 251  
 DB 307 DLYVAFANQLPLEMDAETGLSATCLTGGDQDLPFPRKIMQDEPLTALIKYVPRK 346  
 UY 252 RPOVAFHFLFLKIMAMLETLSINAQHTQRLIQ-DIHPEATPLMOFL 299  
 DB 367 RPSRPH--MPEKIMKIMTLRSISAKGAEVITLKMETPGSMOPLIDEM 413

RESULT 22  
 US-09-921-650-23  
 ? Sequence 23, Application US/09921650  
 ? Publication No. US2003002315A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Bojard, Hermann  
 ? APPLICANT: Gossion, Manfred  
 ? TITLE OF INVENTION: Tetraacyclino-Inducible Transcriptional  
 ? Activation Fusion Proteins  
 ? NUMBER OF SEQUENCES: 37  
 ? CORRESPONDENCE ADDRESS:  
 ? ADDRESSER: LAHIVE & COCKFIELD  
 ? STREET: 28 State Street  
 ? CITY: Boston  
 ? STATE: Massachusetts  
 ? COUNTRY: USA  
 ? ZIP: 02109-1875  
 ? COMPUTER READABLE FORM:  
 ? MEDIUM TYPE: floppy disk  
 ? COMPUTER: IBM PC compatible  
 ? OPERATING SYSTEM: PC-DOS/MS-DOS  
 ? SOFTWARE: ASCII text  
 ? CURRENT APPLICATION: 23A1  
 ? APPLICATION NUMBER: US/09/921,650  
 ? FILING DATE: 03-Apr-2001  
 ? CLASSIFICATION: unknown  
 ? PRIOR APPLICATION DATA:

APPLICANT NUMBER: DS 09/912,650  
FILING DATE: 2001 08 03  
APPLICATION NUMBER: DS 08/385,978  
FILING DATE: 07 JUN 1995  
APPLICATION NUMBER: DS 08/484,754  
FILING DATE: 03 FEB 1995  
APPLICATION NUMBER: DS 08/275,876  
FILING DATE: 15 JULY 1994  
APPLICATION NUMBER: DS 08/270,637  
FILING DATE: 01 JULY 1994  
APPLICATION NUMBER: DS 08/260,452  
FILING DATE: 14 JUNE 1994  
APPLICATION NUMBER: DS 08/076,327  
FILING DATE: 14 JUNE 1993  
APPLICATION NUMBER: DS 09/076,726  
FILING DATE: 14 JUNE 1993  
ATTORNEY/AGENT INFORMATION:  
NAME: GOODMAN, GAIL to A. J.  
REGISTRATION NUMBER: 41,503  
REFERENCE/DOCKET NUMBER: 001 009969INV  
TELEPHONE INFORMATION:  
TELEPHONE: (617)227-7400  
TELEFAX: (617)742-4214  
INFORMATION FOR SEQ ID NOS: 2,3  
SEQUENCE CHARACTERISTICS:  
LENGTH: 272 amino acids  
TYPE: amino acid  
COMPOSITION: 100aa  
MULTIPLE TYPE: Protein  
SEQUENCE DESCRIPTION: SEQ ID NOS: 2,3  
DS 09 921 650 23

[illegible]

1 PARENT: 2,3  
 2 OS: 09/04/08 2,3  
 3 Sequence: 2,3, Application: US/09/74,089  
 4 Patent No.: US2010/15,249A1  
 5 GENERAL INFORMATION:  
 6 APPLICANT: Bujard, Hermann  
 7 (Gibson, Manfred)  
 8 TITLE OF INVENTION: Animal Transgenic for a Polysaccharide Inductible  
 9 Transcription  
 10 NUMBER OF CLAIMS: 20  
 11 CORRESPONDENT ADDRESS:  
 12 ADDRESS: LATITE & COCKFIELD  
 13 STREET: 60 STATE STREET, SUITE 510  
 14 CITY: Boston  
 15 STATE: MASSACHUSETTS  
 16 COUNTRY: USA

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700 2
7
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[illegible]

```

RESOLUTION 24
DATE: 09/06/2004 BY
DESCRIPTION: 1b, Application US/09065706
Patent No.: US20020119621A1
GENERAL INFORMATION:
APPLICANT: Rohm and Coors Company
APPLICANT: Faltis, Subba Reddy
APPLICANT: KATSKY, Marina Zinovjevna
APPLICANT: KATSKY, David Evgenii

```

1 TITLE OF INVENTION: No. US20020119521A1 Ecdysone Receptor-Based Inducible Gene Expr  
2 FILE REFERENCE: A010208  
3 CURRENT APPLICATION NUMBER: US/09/965,703  
4 PRIORITY FILING DATE: 2001-09-26  
5 PRIOR APPLICATION NUMBER: 60/191,455  
6 PRIOR FILING DATE: 2000-03-22  
7 PRIOR APPLICATION NUMBER: 60/269,799  
8 PRIOR FILING DATE: 2001-02-20  
9 PRIOR APPLICATION NUMBER: PCT/US01/09050  
10 PRIOR FILING DATE: 2001-03-21  
11 NUMBER OF SEQ ID NOS: 75  
12 SOFTWARE: Patent In version 3.1  
13 SEQ ID NO 18  
14 LENGTH: 549  
15 TYPE: PRT  
16 ORGANISM: Drosophila melanogaster  
17 FEATURE:  
18 NAME/KEY: misc\_feature  
19 OTHER INFORMATION: No. US20020119521A1 Sequence  
US-09-965-703-18

Query Match 12.5% Score 198; DB 10; Length 549;  
Best Local Similarity 24.9% Pred. No. 4,76-12;  
Matches 85; Conservative 57; Mismatches 145; Indels 64; Gaps 12;

QY 16 EEGRMRELMADQKRTFTFSHKRNLPGVLSG-----CELPSTG 60  
DB 8 ENQAMKRRERKAKQEKDKMTTSPSSQHGNGSLASGGQDFYKKEILDMTCPEPHAT 67  
QY 61 AFSREAAKWSQVRKDIQSLKVSILQKQEDSW---NYKPAISGKKEIFS----- 109  
DB 68 ILLDELLAKQVARNIPLSYNQLAVIYKLWYQKYEQDSHDLKMSQDPENESQ 126  
QY 110 ---LLPMAKMSYMEKGLISFAKVISYFRDLPITFDQSLKGAAPLQGRF----- 159  
DB 127 TVSPRHITETITLVQILVEAKGLPAFKIPQHQITLLKACSSVYMLKMARRYDS 186  
QY 160 NTVENAETGWEGRISVLETPAGCPQOULEPMLKPHYMLKQIQLHEEYVMQATIS 218  
DB 167 SLSIFPANNRST--KSYKKAQAMDN-----IDLLHPKQMSMKVNVETALIAIV 239  
QY 219 LESPDRGVLIQHVVDQIQDFATILKSYLEGN--PQPAHPELTKIMAMTELKSTNA 276  
DB 240 LFS-DRPGLEKQIVEAIOASYIDILKTYI-LNRGDSMSLVFYAKLSTIELKILGN 297  
QY 277 QHTQR-----LLKQDILHPATPLMQLPGIT 303  
DB 298 QNAEPCTSLKLNKRLKPELEIWDVHAI-PPSVQSHLQIT 347

## RESULT 25

US-09-853-450-18  
1 Sequence 18, Application US/09853450  
2 Publication No. US2002019445A1  
3 GENERAL INFORMATION:  
4 APPLICANT: Yanoosky, Martin F.  
5 APPLICANT: Pelaz, Soraya  
6 APPLICANT: Delta, Gary  
7 TITLE OF INVENTION: Combinations of genes for producing seed plants  
8 TITLE OF INVENTION: Exhibiting Modulated Reproductive Development  
9 FILE REFERENCE: 19452A-002400US  
10 CURRENT APPLICATION NUMBER: US/09/853,450  
11 CURRENT FILING DATE: 2001-05-09  
12 NUMBER OF SEQ ID NOS: 61  
13 SOFTWARE: Patent In Ver. 2.1  
14 SEQ ID NO 18  
15 LENGTH: 550  
16 TYPE: PRT  
17 ORGANISM: Drosophila melanogaster  
18 FEATURE:  
19 OTHER INFORMATION: ecdysone receptor ligand binding domain  
US-09-853-450-18

Query Match 12.5% Score 198; DB 9; Length 550;  
Best Local Similarity 24.9% Pred. No. 4,76-12;  
Matches 85; Conservative 57; Mismatches 145; Indels 64; Gaps 12;

QY 16 EEGRMRELMADQKRTFTFSHKRNLPGVLSG-----CELPSTG 60  
DB 9 ENQAMKRRERKAKQEKDKMTTSPSSQHGNGSLASGGQDFYKKEILDMTCPEPHAT 68  
QY 61 AFSREAAKWSQVRKDIQSLKVSILQKQEDSW---NYKPAISGKKEIFS----- 109  
DB 69 ILLDELLAKQVARNIPLSYNQLAVIYKLWYQKYEQDSHDLKMSQDPENESQ 127  
QY 110 ---LLPMAKMSYMEKGLISFAKVISYFRDLPITFDQSLKGAAPLQGRF----- 159  
DB 128 TVSPRHITETITLVQILVEAKGLPAFKIPQHQITLLKACSSVYMLKMARRYDS 167  
QY 160 NTVENAETGWEGRISVLETPAGCPQOULEPMLKPHYMLKQIQLHEEYVMQATIS 218  
DB 168 SLSIFPANNRST--KSYKKAQAMDN-----IDLLHPKQMSMKVNVETALIAIV 240  
QY 219 LESPDRGVLIQHVVDQIQDFATILKSYLEGN--PQPAHPELTKIMAMTELKSTNA 276  
DB 241 LFS-DRPGLEKQIVEAIOASYIDILKTYI-LNRGDSMSLVFYAKLSTIELKILGN 298  
QY 277 QHTQR-----LLKQDILHPATPLMQLPGIT 303  
DB 299 QNAEPCTSLKLNKRLKPELEIWDVHAI-PPSVQSHLQIT 348

## RESULT 26

US-09-965-703-17  
1 Sequence 17, Application US/09965703  
2 Patent No. US20020119521A1  
3 GENERAL INFORMATION:  
4 APPLICANT: Rohm and Haas Company  
5 APPLICANT: Palli, Subba Reddy  
6 APPLICANT: Kapitskaya, Marianna Zinovjevna  
7 APPLICANT: Gross, Dean Eryth  
8 TITLE OF INVENTION: No. US20020119521A1 Ecdysone Receptor-Based Inducible Gene E  
9 FILE REFERENCE: A010208  
10 CURRENT APPLICATION NUMBER: US/09/965,703  
11 CURRENT FILING DATE: 2001-09-26  
12 PRIOR APPLICATION NUMBER: 60/191,455  
13 PRIOR FILING DATE: 2000-03-22  
14 PRIOR APPLICATION NUMBER: 60/269,799  
15 PRIOR FILING DATE: 2001-02-20  
16 PRIOR APPLICATION NUMBER: PCT/US01/09050  
17 PRIOR FILING DATE: 2001-03-21  
18 SOFTWARE: Patent In version 3.1  
19 SEQ ID NO 17  
20 LENGTH: 583  
21 TYPE: PRT  
22 ORGANISM: Drosophila melanogaster  
23 FEATURE:  
24 NAME/KEY: misc\_feature  
25 OTHER INFORMATION: No. US20020119521A1 Sequence  
US-09-965-703-17

Query Match 12.5% Score 198; DB 10; Length 583;  
Best Local Similarity 24.9% Pred. No. 5,10-12;  
Matches 85; Conservative 57; Mismatches 145; Indels 64; Gaps 12;

QY 16 EEGRMRELMADQKRTFTFSHKRNLPGVLSG-----CELPSTG 60  
DB 42 ENQAMKRRERKAKQEKDKMTTSPSSQHGNGSLASGGQDFYKKEILDMTCPEPHAT 101  
QY 61 AFSREAAKWSQVRKDIQSLKVSILQKQEDSW---NYKPAISGKKEIFS----- 109  
DB 102 ILLDELLAKQVARNIPLSYNQLAVIYKLWYQKYEQDSHDLKMSQDPENESQ 160  
QY 110 ---LLPMAKMSYMEKGLISFAKVISYFRDLPITFDQSLKGAAPLQGRF----- 159









query Match	11.98;	Score 189;	DB 10;	Length 505;
Best Local Similarity	22.68;	Pred. No. 3.6e-11;		
Matches	70;	Conservative 59;	Mismatches 109;	Indels 76;
				Gaps 10;

QY	19	KOMI REIMDAMOK	FEOTI	FESEKREKRE	RIJYU	SSICJED	FEJLOSPE	-----	EEAAWSON	7
		1	1	1	1	1	1	1	1	1
Dh	240	RALKKILYDST	KSEFEI	-----	-----	-----	KAKAKA	II	IGRI	276
		1	1	1	1	1	1	1	1	1
QY	74	KRDO	SEKVSU	QJ	KQFQ	SWNNK	PRADSO	KRE	FEI	II
		1	1	1	1	1	1	1	1	1
Dh	277	IYDNNST	-----	MMGE	RIK	IKK	II	PI	QJ	SEV
		1	1	1	1	1	1	1	1	1
QY	125	-----	II	SEK	VS	FE	HO	U	ED	U
		1	1	1	1	1	1	1	1	1
Dh	422	QJ	ET	EE	YAK	SI	GE	PN	DI	NO
		1	1	1	1	1	1	1	1	1
QY	177	YCE	ED	TA	NI	FO	LL	DE	MI	K
		1	1	1	1	1	1	1	1	1
Dh	382	KSI	K	PE	GE	DE	-----	ME	FE	AA
		1	1	1	1	1	1	1	1	1
QY	247	QJ	Q	U	Q	U	Q	U	Q	U
		1	1	1	1	1	1	1	1	1
Dh	448	QJ	NI	Q	U	Q	U	Q	U	Q
		1	1	1	1	1	1	1	1	1
QY	291	FAT	PI	MO	EL	300	-----	-----	-----	-----
		1	1	1	1	1	1	1	1	1
Dh	495	-----	PH	LO	DE	Y	501	-----	-----	-----
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1  RESULT 45
2  US-09-895-840-2
3  Sequence 2, Application US/09895840
4  Patent No. US20020108138A1
5  GENERAL INFORMATION:
6  APPLICANT: Quehenber, Catherine
7  TITLE OF INVENTION: Transgenic mice containing Rbqamma gene
8  TITLE OF INVENTION: disruptions
9  FILE REFERENCE: R-409
10 CURRENT APPLICATION NUMBER: US/09/895,840
11 CURRENT FILING DATE: 2001-06-28
12 PRIOR APPLICATION NUMBER: US 60/215,466
13 PRIOR FILING DATE: 2000-06-29
14 PRIOR APPLICATION NUMBER: US 60/221,667
15 PRIOR FILING DATE: 2000-07-27
16 NUMBER OF SEQ ID NOS: 4
17 SOFTWARE: FastSeq for Windows Version 4.0
18 SEQ ID NO: 2
19 LENGTH: 516
20 TYPE: CDS
21 ORGANISM: Mus musculus
22 US-09-895-840-2

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	Query	Match	11.9%	Score 189	Eh 10	Length 516
	Best Local Similarity	27.9%	Prod. No. 3.70-11			
	Matches	66	Conservative	43	Mismatches	109
					Indels	30
					Gaps	8
QY	75	KDLC-STLVSVIQLKRED-----GSAWNKPKPADSGAKELFSLIPHMADRSYTMFKILISF	128			
DB	273	GNVCKSPREFTQILFEDILLRONTNLFSPREHVSQYOKSSMMEMERCAHLLFAIQQVVEF	332			
QY	129	AKVIVSEFRIPLPEIQISLKGAFELCOIREFVTNAEGTMCOSHSYCLEDTAG---	185			
DB	333	AKRLSGFHELCQNDQIILLLACAMEYLVLRMKRAVINANHIT-----VFEGCKRGQVGL	385			
QY	186	FQOLC-----ILPEMLKFEHYMKIKGHEHEEYLVQMAISLEPDRPGVILQHRVNDIQFOFA	241			
DB	386	FRALQSCSPLISLIPDFSEFLSMICSESDLEIATYALVILINARRPGIOERREYEHQYNLE	445			
QY	242	TIKASYEFCNKGVPNHRLEFLIKIMAMIFELRSINQHTQILLRTODIHPVAL-----PLM	296			
DB	446	LAFNNHLLCK-----THROGILLAKLPKPKKISLSQSHVKKIOLFOHLLHIVVQAAPATPY	500			

QY	297	QHLF	306
		: 111	
Id	501	KELF	504

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RESULT 56
US-09-765-111A-2
Sequence: 2, Application US/09765111A
Patent No.: US2002016796A1
GENERAL INFORMATION:
APPLICANT: Fletcher, Jonathan A.
APPLICANT: Kroll, Todd G.
TITLE OF INVENTION: FAX PARAMETER NOTIFICATION
FILE OF INVENTION: AND POLYMERIDES AND USES THEREOF
FILE REFERENCE: 0808177195/EP/OMI
CURRENT APPLICATION NUMBER: US/09/765,111A
CURRENT FILING DATE: 2001-01-18
PRIOR APPLICATION NUMBER: US 60/177,139
PRIOR FILING DATE: 2000-01-20
PRIOR APPLICATION NUMBER: US 60/225,079
ERROR FILING DATE: 2000-08-14
NUMBER OF SEQ. ID NOS.: 47
SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO.: 2
LENGTH: 777
TYPE: PRT
ORGANISM: Homo Sapiens
US-09-765-111A-2

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Query Match	11.98	Score	1892	DB	102	Length	7772
Best Local Similarity	22.68	Prod	No.	6	66	115	
Matches	702	Conservative	552	Mismatches	1092	Indels	762
QY	19	KRMIRRLMDAQRKIFDTFISHKKNRRLDLYLSNDELPESTQAPSR					EFARMSQV 74
DB	512	KALAKHLYDSIKRSPLT-----					KAKARALLIKRIKSTFV 548
QY	74	KKDQSLKVSQQLKEDDSVNNKRIYPAISGKEKELPSLLPHMAQDSTYPRKG					----- 124
DB	549	LYDNMSL-----MGEGRKIKHPTPLQDQKREV-----					ALRFLQDQFQPSYPAV 534
QY	125	--LISFAKVISYPRRLPRLEQDLSLLKGAPELQGLRENTVN-----					ADLGIMWGRGLS 176
DB	594	QETTPYKASITQEPVMDINDQVTLTKVGVHETIYIMASIMKKQCVLSISQAGPRTKFT					653
QY	177	YCLEDFADLPDQDLLEPMKIKHYMKIKQLIBEEFYVLMQALSTSPRQVYIQHVVQDL					246
DB	654	KSLKKRPDPLF-----MEPRFEPAVKRNALFLDPSQALATFATVTLISGDDGLINVPDID					709
QY	247	QHQFALILKSTFENRQVLAHRTFLTKIMAMILIELKSTINAOHTQDLKIQ-----					DLHF 290
DB	710	QNLQDLQLELEQLEKINHPDSQ--LPAKTLQMTDILQQLVLEHVLQGLQVKKLEILIMSLH					766
QY	291	FATPLMQLPLF 300					
DB	767	---PLDQLEY 773					

```

RESULT 37
US-09-765,111A-23
Sequence 23, Application US/09765111A
Patent No. US20020106796A1
GENERAL INFORMATION:
APPLICANT: Fletcher, Jonathan A.
APPLICANT: Kroll, Todd G.
TITLE OF INVENTION: PAX8-PPARgamma NOCLETIC ACID MODULATORS
FILE REFERENCE: B080177196/FEP/MAT
CURRENT APPLICATION NUMBER: US/09/765,111A
CURRENT FILING DATE: 2001-01-18
PRIOR APPLICATION NUMBER: US 60/177,109
PRIOR FILING DATE: 2000-01-20
PRIOR APPLICATION NUMBER: US 60/225,079

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GenCore version 5.1.4.P5\_4578  
Copyright (c) 1993 2003 Computron Ltd.

0M protein protein search, using sw model

Run on: April 15, 2003, 11:18:57 : Search time 10.6272 seconds

(without alignments)

844.274 Million cell updates/sec

Title: US-09-276-935D-14\_COPY\_130\_434

Perfect score: 1585

Sequence: 1 SERTGTPLEVOGITEFORM.....QDIHPATPLMOLFITGS 305

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

262574

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :  
1: Issued\_Patents\_AA1\*  
2: /cqn2\_6/ptodata/1/1aa/5A.COMB.pep:\*  
3: /cqn2\_6/ptodata/1/1aa/5B.COMB.pep:\*  
4: /cqn2\_6/ptodata/1/1aa/6A.COMB.pep:\*  
5: /cqn2\_6/ptodata/1/1aa/6B.COMB.pep:\*  
6: /cqn2\_6/ptodata/1/1aa/PTCUTS.COMB.pep:\*  
7: /cqn2\_6/ptodata/1/1aa/Backlitest.pep:\*

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match %	Length DB	ID	Description
1	592	37.4	386	4	US-08-875-082-2
2	479.5	30.3	348	1	US-08-459-489-10
3	479.5	30.3	348	1	US-08-458-686-10
4	479.5	30.3	348	1	US-07-843-350G-10
5	478	30.2	367	1	US-07-737-736H-4
6	470	28.7	427	4	US-08-764-870-11
7	249.5	15.7	446	2	US-08-372-652-3
8	249.5	15.7	446	5	PCT-US95-16311-2
9	248.5	15.7	446	4	US-08-776-844-2
10	248	15.6	461	1	US-08-340-518-2
11	248	15.6	461	1	US-08-340-283-2
12	248	15.6	461	2	US-08-646-248-2
13	248	15.6	461	2	PCT-US95-13924-2
14	248	15.6	461	5	PCT-US95-13931-2
15	247	15.6	460	1	US-08-342-411A-2
16	244.5	15.4	443	1	US-08-342-411A-4
17	241.5	15.2	472	1	US-08-496-631-2
18	240.5	15.2	440	1	US-08-343-358-8
19	240.5	15.2	440	1	US-08-463-694-8
20	240.5	15.2	440	1	US-08-694-501-8
21	240.5	15.2	443	1	US-08-373-935-1
22	238.5	15.0	433	2	US-08-466-120-2
23	238.5	15.0	433	5	PCT-US94-07266-2
24	234.5	14.8	451	2	US-08-372-652-2
25	234.5	14.8	451	2	PCT-US95-16311-2
26	234.5	14.8	484	2	US-08-372-652-1
27	234.5	14.8	484	5	PCT-US95-16311-1

28	231.5	14.6	469	4	US-08-372-183-2	Sequence 2, Appl 1
29	231.5	14.6	469	4	US-09-469-721-2	Sequence 2, Appl 1
30	231.5	14.6	469	4	US-09-466-443-2	Sequence 2, Appl 1
31	231.5	14.6	469	5	PCT-US95-17024-2	Sequence 2, Appl 1
32	228	14.4	461	4	US-08-764-870-4	Sequence 3, Appl 1
33	228	14.4	461	4	US-08-980-115-4	Sequence 3, Appl 1
34	219	13.8	455	6	5223606-4	Patent No. 5223606
35	210	13.2	674	4	US-08-653-648A-14	Sequence 14, Appl 1
36	206.5	13.0	410	4	US-08-764-870-2	Sequence 2, Appl 1
37	206.5	13.0	410	4	US-08-980-115-2	Sequence 2, Appl 1
38	206.5	13.0	410	6	5438126-2	Patent No. 5438126
39	202.5	12.8	410	4	US-08-764-870-1	Sequence 1, Appl 1
40	202.5	12.8	410	4	US-08-980-115-1	Sequence 1, Appl 1
41	201	12.7	368	6	5223606-3	Patent No. 5223606
42	201	12.7	448	6	5223606-2	Patent No. 5223606
43	200	12.6	462	2	US-08-592-183-2	Sequence 2, Appl 1
44	200	12.6	462	2	US-08-095-728H-4	Sequence 4, Appl 1
45	200	12.6	462	5	PCT-US92-02320A-4	Sequence 4, Appl 1

#### ALIGNMENTS

RESULT 1  
US-08-875-082-2  
Sequence 2, Application US/08875082  
Patent No. 6391847  
GENERAL INFORMATION:  
APPLICANT: Evans, Ronald M.  
APPLICANT: Blumberg, Bruce  
TITLE OF INVENTION: A NOVEL RXR-DEPENDENT SIGNALING PATHWAY  
TITLE OF INVENTION: AND LIGANDS USEFUL THEREFOR  
NUMBER OF SEQUENCE: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Gray Cary Ware & Freidenrich, LLP  
STREET: 465 Executive Dr., Suite 1600  
CITY: San Diego  
STATE: CA  
COUNTRY: USA  
ZIP: 92121  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPILED: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/875,082  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/474,445  
FILING DATE: 17-JAN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Keller, Stephen E.  
REGISTRATION NUMBER: 34,192  
REFERENCE/DOCKET NUMBER: 141 9887  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 619-677-1409  
TELEFAX: 619-677-1465  
INFORMATION FOR SEQ ID NOS: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 386 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-875-082-2  
Query Match: 37.4% Score 592; DB 4; Length 386;  
Best Local Similarity 41.8% Prod. No. 2,46-55;  
Matches 127; Conservative 46; Mismatches 71; Indels 46; Gaps 6;  
CY 14 ILEGRMIRRLMOMKMTFTTFSHRNRLNVLNLSGTLPSTGATNSFAAKNSGV 73





181 VERSTLPEHQDLSLKGAAVEICHIVLNTFQLQDNLQGLRLYL EDGCAVGVQVEFLF 240  
193 FMKRYHMLKQIOLEEEYVIMQALSLSPDRGVGLQHRVNDQIQOKFAIIKSYIFENR 252  
241 LLEFHCHTRKIOLEPEYVILAMALPSDRGVGLQHRVNDQIQOKFAIIKSYIFENR 400  
253 POPARPEFLKIMAMITRINSNAGHTORLRLQDIDHFFAIPIMQEL 299  
401 RRPDRPEFLYAKLLGLLALRSLINFAVGYQIHTQILSAM-MPTLOEI 346  
RESULT 4  
US-07-843-350C-10  
Sequence 10: Application US/07843350C  
Patent No. 5756448  
GENERAL INFORMATION:  
APPLICANT: David D. Moore et al.  
TITLE OF INVENTION: CAR RECEPTORS AND RELATED  
TITLE OF INVENTION: MOLECULES AND METHODS  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: U.S.A.  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" diskette, 1.44 Mb  
COMPUTER: IBM PS/2 Model 502 or 555X  
OPERATING SYSTEM: IBM P.C. DOS (Version 3.30)  
SOFTWARE: WordPerfect (Version 5.0)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/843,350C  
FILING DATE: February 26, 1992  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Paul T. Clark  
REGISTRATION NUMBER: 40,162  
REFERENCE/DOCKET NUMBER: 00786/126001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 542-5970  
TELEFAX: (617) 542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 348  
TYPE: amino acid  
STRANDEDNESS: N/A  
TOPOLOGY: linear  
US-07-843-350C-10  
Query Match 40 38: Score 479.5; DB 1: Length 348;  
Best Local Similarity 39.0%; Prod. No. 2,66-43  
Matches 112: Conservative 40; Mismatches 88; Indels 47; Gaps 4;  
14 LLEEQMMKIRELMQOMKTFDTFSHKRNLGVLSSTGLPESTLOASREAAKWSGV 73  
106 LSKRDEELIRLLATNTRIMTGMFGVFRPPAHLFIHHQ PRTLLA----- 153  
74 RKDLSLKASLQLRGHDSVWYKPPADSCKEISLAPIMADNSIYMKGLISFAKVIS 133  
154 -----VLPLVHFADINIFWLVVYKFKEDLP 180  
134 YFROPLPEQDLSLKGAAVEICHIVLNTFQLQDNLQGLRLYL EDGCAVGVQVEFLF 192  
181 VERSTLPEHQDLSLKGAAVEICHIVLNTFQLQDNLQGLRLYL EDGCAVGVQVEFLF 240  
193 FMKRYHMLKQIOLEEEYVIMQALSLSPDRGVGLQHRVNDQIQOKFAIIKSYIFENR 252

241 LLEFHCHTRKIOLEPEYVILAMALPSDRGVGLQHRVNDQIQOKFAIIKSYIFENR 400  
253 POPARPEFLKIMAMITRINSNAGHTORLRLQDIDHFFAIPIMQEL 299  
401 RRPDRPEFLYAKLLGLLALRSLINFAVGYQIHTQILSAM-MPTLOEI 346  
RESULT 5  
US-07-737-736B-4  
Sequence 4: Application US/07737736B  
Patent No. 5260199  
GENERAL INFORMATION:  
APPLICANT: Deluca, Hector F.  
APPLICANT: Koss, Troy K.  
APPLICANT: Prah, Jean M.  
TITLE OF INVENTION: Method of Producing  
TITLE OF INVENTION: 1,25-dihydroxyvitamin D3 Receptor Protein  
NUMBER OF SEQUENCES: 6  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Carl R. Schwartz, Esq., c/o Quarles & Brady  
STREET: 411 East Wisconsin Avenue  
CITY: Milwaukee  
STATE: Wisconsin  
COUNTRY: U.S.A.  
ZIP: 53202  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM pc compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/737,736B  
FILING DATE: 19910730  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Schwartz, Carl R.  
REGISTRATION NUMBER: 29,447  
REFERENCE/DOCKET NUMBER: 96-296 2185-2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 414-277-5774  
TELEFAX: 414-277-5774  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 467 amino acids  
TYPE: AMINO ACID  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYDROTHERMAL: NO  
ANTI-SPINER: NO  
ORIGINAL SOURCE:  
ORGANISM: Rat  
PUBLICATION INFORMATION:  
AUTHORS: Burmeister, James K.  
AUTHORS: Maeda, No. 5260199yo  
AUTHORS: Deluca, Hector F.  
TITLE: Isolation and expression of rat  
TITLE: 1,25-dihydroxyvitamin D3 receptor cDNA  
JOURNAL: Proc. Natl. Acad. Sci. U.S.A.  
VOLUME: 85  
PAGES: 1005-1009  
DATE: February-1988  
US-07-737-736B-4  
Query Match 40 28: Score 478; DB 1: Length 467;  
Best Local Similarity 47.4%; Prod. No. 46-43  
Matches 114: Conservative 57; Mismatches 108; Indels 26; Gaps 7;  
14 LLEEQMMKIRELMQOMKTFDTFSHKRNLGVLSSTGLPESTLOASREAAKWSGV 71  
106 LSKRDEELIRLLATNTRIMTGMFGVFRPPAHLFIHHQ PRTLLA----- 153  
68 LSPDQHTLALILAHIRKTYDRLVADPDRPRLPVMMDSVSYSR-----PLISFSSNS 123

```

1  RESULT 6
2  US OR 764 870 11
3  Sequence 11, Application US/08/764870
4  Patent No. 6,256,946
5  GENERAL INFORMATION:
6  APPLICANT: Steinberg, Thomas S.
7  APPLICANT: Baxter, John J.
8  APPLICANT: Eliott, John J.
9  APPLICANT: Kishner, Richard L.
10 APPLICANT: Apollonio, Robert J.
11 APPLICANT: Apollonio, James W.
12 APPLICANT: West, Brian
13 TITLE OF INVENTION: Nuclear Receptor Ligands and Ligand
14 NUMBER OF SEQUENCES: 16
15 ADDRESS/INVENTOR ADDRESS:
16 ADDRESS: Energy Research
17 STREET: 4700 Palo Alto Square, 4000 El Camino Real
18 CITY: Palo Alto
19 STATE: CA
20 COUNTRY: USA
21 ZIP: 94306
22 COMPUTER READABLE FORM:
23 METHOD TYPE: floppy disk
24 COMPUTER: IBM compatible
25 OPERATING SYSTEM: pc/pc5/MS DOS
26 SOFTWARE: Patent In Relevance #13, Version #1.00
27 CURRENT APPLICATION DATA:
28 APPLICATION NUMBER: US/2001/764,870
29 FILING DATE: 14 Dec 1995
30 CLASSIFICATION: 5,10
31 PRIOR APPLICATION DATA:
32 APPLICATION NUMBER: US 60/008,940
33 FILING DATE: 14 Dec 1995
34 PRIOR APPLICATION DATA:
35 APPLICATION NUMBER: US 60/008,945
36 FILING DATE: 14 Dec 1995
37 PRIOR APPLICATION DATA:
38 APPLICATION NUMBER: US 60/008,606
39 FILING DATE: 14 Dec 1995
40 AT ORNEY/AGENT INFORMATION:
41 NAME: Rukmini, Jack O. N.
42 REPRESENTATION NUMBER: 45,956
43 REFERENCE/PRIOR ART NUMBER: (CA) 450,119S
44 TELEPHONE: (650)845 4030
45 INFORMATION FOR SEQ ID NO: 11:
46 SEQUENCE CHARACTERISTICS:
47 LENGTH: 427 amino acids
48 TYPE: amino acid
49 ORGANISM: Human

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1 RESUME 7  
 2 US 08/472-652-4  
 3 Sequence 4: Application US/08472652  
 4 Patent No. 5932099  
 5 GENERAL INFORMATION:  
 6 APPLICANT: Moore, David  
 7 APPLICANT: Sood, Manoj  
 8 APPLICANT: Chola, Hong Sik  
 9 TITLE OF INVENTION: RETINOL X RECEPTOR INTERACTING  
 10 TITLE OF INVENTION: POLYPEPTIDES AND RELATED MOLECULES AND METHODS  
 11 NUMBER OF SYNOPSIS: 17  
 12 CORRESPONDENT'S ADDRESS:  
 13 ADDRESS: Fish & Richardson P.C.  
 14 STREET: 225 Franklin Street, Suite 4100  
 15 CITY: Boston  
 16 STATE: MA  
 17 COUNTRY: USA  
 18 ZIP: 02110 2904  
 19 COMPUTER RELEVABLE FORM:  
 20 MEDIA TYPE: Floppy disk  
 21 COMPUTER: IBM pc compatible  
 22 OPERATING SYSTEM: PC DOS/MS DOS  
 23 SOFTWARE: Fatcat In Release #1.0, Version #1.40  
 24 OTHER APPLICATION DATA:  
 25 APPLICATION NUMBER: US/08/472-652  
 26 FILING DATE: 13-JAN-1995  
 27 A/PRIORITY/AGENT INFORMATION:  
 28 NAME: Clark, Paul T.  
 29 REGISTRATION NUMBER: 40,162  
 30 REFERENCE/OTHER NUMBER: 00066/240001  
 31 ELECTRONIC/INFORMATION:  
 32 TELEPHONE: 617/542 5070  
 33 TELEFAX: 617/542 8906  
 34 FAX: 200154  
 35 INFORMATION FOR SEQ ID NO: 3:  
 36 SEQUENCE CHARACTERISTICS:  
 37 LENGTH: 446 amino acids  
 38 TYPE: amino acid  
 39 STRANDINESS: not relevant  
 40 PROPERTY: 11000  
 41 MOLECULE TYPE: protein





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: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: HYPOTHETICAL: NO
: ANTI-SENSE: NO
US-08-330-283-2

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Query Match	15.6%	Score 248	DB 1	Length 461
Best Local Similarly	26.7%	Prod. No. 3e-18		
Matches 80	Conservative 55	Mismatches 101	Indels 64	Gaps 11

QY	10	GVQVETEDQRMKLELMAMQKRTDTTTFEHRKRLNGVLSQETELPELSQASREBAK	6
Db	217	GVQVETEDQRMKLELMAMQKRTDTTTFEHRKRLNGVLSQETELPELSQASREBAK	257
QY	70	MSQVKKGLQSLKVSLLQRLGRLQSVWNRKPKVADSGKLELSLPMADMSVYRKGLTSEA	129
Db	252	MSQVKKGLQSLKVSLLQRLGRLQSVWNRKPKVADSGKLELSLPMADMSVYRKGLTSEA	299
QY	140	KVLSFRLDLEHQLSLKTAAPFLQVLRFTVNAETGIMETGRLSVLEDTAG	184
Db	287	KVLSFRLDLEHQLSLKTAAPFLQVLRFTVNAETGIMETGRLSVLEDTAG	331
QY	185	GFQQLLEPMLEMYMKKQLLHEEYVLMATSESPDRQVQLQHRVDDGAFQVAIL	244
Db	344	GFQQLLEPMLEMYMKKQLLHEEYVLMATSESPDRQVQLQHRVDDGAFQVAIL	403
QY	245	KSYTECHNQVARIPELLEKIMAMLELRKSLNAQTFQRLKRLQDHPKALPLMGEFLQI	302
Db	404	KSYTECHNQVARIPELLEKIMAMLELRKSLNAQTFQRLKRLQDHPKALPLMGEFLQI	463

## RESULTS 12

US-08-046-248-2  
Sequence 2, Application US/08646248  
Patent No. 5939322  
Genetic Information

GENERAL INFORMATION:  
APPLICANT: Friedman, Ethan  
APPLICANT: Holloway, M. Kaharino  
APPLICANT: Rodan, Gideon  
APPLICANT: Rutledge, Su Jane  
APPLICANT: Schmidt, Arieh  
APPLICANT: Vogel, Robert  
TITLE OF INVENTION: METHOD FOR FINDING RECEPTOR POTENTIALS  
NUMBER OF SEQUENCES: 5

1 ADDRESS: Mettek & Co., Inc.  
2 STREET: 126 East Lincoln Avenue  
3 CITY: Rahway  
4 STATE: New Jersey  
5 COUNTRY: US  
6 ZIP: 07065-0907  
7  
8 COMPUTER READABLE FORM:  
9 MEDIUM TYPE: floppy disk  
10 COMPUTER: IBM PC compatible  
11 OPERATING SYSTEM: PC-DOS/MS-DOS  
12 SOFTWARE: Patent in Release #1.0.  
13  
14 CURRENT APPLICATION DATA:  
15 APPLICATION NUMBER: US/08/646,248  
16 FILING DATE: 14-MAY 1996  
17 CLASSIFICATION: 536  
18 PRIOR APPLICATION DATA:  
19 APPLICATION NUMBER: 08/310,283  
20 FILING DATE: 27-OCT-1994  
21  
22 ATTORNEY/AGENT INFORMATION:  
23 NAME: Dolan, Catherine A.  
24 REGISTRATION NUMBER: 36,502  
25 REFERENCE/PACKET NUMBER: 19427  
26 TELECOMMUNICATION INFORMATION:  
27 TELEPHONE: (908) 594-4284  
28 TELEFAX: (908) 594-4720  
29  
30 INFORMATION FOR SEQ ID NO: 2:

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1 SEQUENCE CHARACTERISTICS:
2     LENGTH: 461 amino acid
3     TYPE: amino acid
4     STRANDNESS: single
5     TOPOLOGY: linear
6     MOLECULE TYPE: peptide
7     HYDROTIC: NO
8     ANTI-SENSE: NO
9
10 UN-08-046-248 2

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Query Match 15.6%; Score 246; Length 461;  
 Host Local Similarity 26.7%; Pred. No. 30.18;  
 Matches 60; Conservative 5%; Mismatches 161; Indels 64; Gaps 11

[illegible]

## RESULTS

PC/TUS951392  
GENERAL INFORMATION:  
SEQUENCE 2, APPLICATION

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0Y      63 SREFAAKWGVCRKLOFSLKVSJOLRGEIGSWANRKPNASNAKELEPSLIPMAKMSLYMF 122
DB      224 DLRLKTTWPMAP-----DMSIFRAKKOFA--HETELAVSV 258
0Y      123 KGLISPAKVIVSKPIPLTEPOLSLKKAAPFLVQIRNTVEN-APTCTWGRKLSYLE 180
DB      259 QEVTFPAVLNGPILQLSHEDQVALIKTSIAEVMMLLETSRKNVPSSSTF-LKOPSYMRE 317
0Y      181 DTA-GGPGVLLPEPMKLKTKIOLIREVEVIMQALSLFSNPKRGVLIQHNVNLCOD 249
DB      318 DFARKSGVEFTNPITFEFSKAMNELQMLADPALLIALSTPSADRPNQDLQVGRICHT 377
0Y      210 FALIKSTFNBRDPARPLEFKRMATLERSINAGTORT-LRIUGHPVAHEMG 297
DB      438 YVEALHAVSVTHHRP-DRLMPFMRLMKLVSLRTSIVHSVDFVAKLRDP-KRLFLLS 444
0Y      298 ELFGT 40Z
DB      434 EMDV 438

RESULT 21
US-08-373-935-1
Sequence 1, Application US/08373935
Patent No. 5747661
GENERAL INFORMATION:
APPLICANT: Evans, Ronald M.
APPLICANT: Mandelsort, David J.
TITLE OF INVENTION: IDENTIFICATION OF A DISTINGUISHABLE RETINOID-RESPONSIVE PATHWAY AND USES THEREFOR
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Priddy, Schroeder, Brummenhain & Clark
STREET: 444 South Flower Street, Suite 2000
CITY: Los Angeles
STATE: CA
COUNTRY: USA
ZIP: 90071
COMPUTER RELEVANT FORM:
MEDIA TYPE: Floppy disk
OPERATING SYSTEM: pc DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/373,935
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGEN. INFORMATION:
NAME: Reiter / Schroder E.
REGISTRATION NUMBER: 41,192
REFERENCE/PUBLICATION INFORMATION:
PUBNO/PUBLICATION INFORMATION:
TELEPHONE: 619 546 4747
TELEFAX: 619 546-4747
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-373-935-1

Query Match: 15,2%; Score 240.5; Pos 1; Length 447;
Best Local Similarity 25.6%; Pred. No. 1, No. 17;
Matches 78; Conservative 58; Mismatches 110; Indels 59; Gaps 9;

0Y      4 RTGTGTVGGVTFFELRRMIREFIMQMKTFPTFSHKRNPLMVLSNTELPESLCAF 62
DB      195 RRSSTPLLPLQSFDLMGMTEKI VAAQQCCNRSS----- 240
        63 SHEFAAKWGVCRKLOFSLKVSJOLRGEIGSWANRYNYKQIPANSNAKELEPSLIPMAKMSLYMF 122

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QY 124 KGIISAKVSYFRIQDLEIKSLKGAPELQCLRENTVY--AEQIGWEGRLSYTE 180
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DB 252 QEIYFIRKQICQFQIOLSHENPQIALIKTSIAFVMI VETISRYNPOSESTF LKDFSYNR 410
QY 181 QTA-GGPPQLLEPMKPRHMI KRIQHEEYVLMQALSLSPSPQVYQHRVYQIQPQ 249
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 411 QFAKAGLQVEFI NPTFESRAMEQLQNDPEFALLIASISAPRPVQDQIQVRIQHT 470
QY 240 FALIKSTIKENRQYPAHRELEKIMAMLTLSKINAOHTQRL--LRIGIHPPAIIQMO 297
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 371 YVEAFHAYVSIHHPR--DRLMFPRMLKVLISRLTSSVSECVQVALRLQD--KKLPILIS 426
QY 298 FLEGT 302
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 427 KIMQV 431

RESULT 24
US-08-372-652-2
: Sequence 2: Application US/08472652
: Patent No. 5932699
: GENERAL INFORMATION:
: APPLICANT: Moore, David
: APPLICANT: Seoul, Wonai
: APPLICANT: Choi, Hwang-Sik
: TITLE OF INVENTION: RETINOID X RECEPTOR INTERACTING
: TITLE OF INVENTION: POLYPEPTIDES AND RELATED MOLECULES AND METHODS
: NUMBER OF SEQUENCES: 17
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Fish & Richardson P.C.
: STREET: 225 Franklin Street, Suite 4100
: CITY: Boston
: STATE: MA
: COUNTRY: USA
: ZIP: 02110-2804
: COMPUTER READABLE FORM:
: MEDIUM TYPE: floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/372.652
: FILING DATE: 13-JAN-1995
: ATTORNEY/AGENT INFORMATION:
: NAME: Clark, Paul T.
: REGISTRATION NUMBER: 30,162
: REFERENCE/DOCKET NUMBER: 00786/246001
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 617/542-5070
: TELEFAX: 617/542-8906
: TELEX: 200154
: INFORMATION FOR SPO ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 451 amino acids
: TYPE: amino acid
: STRANDNESS: not relevant
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-372-652-2

Query Match 14.84: Score 234.5; DB 2: Length 451;
Post Local Similarity 41.98; Pred. No. 8.2e-17;
Matches 65; Conservative 41; Mismatches 85; Indels 13; Gaps 7;

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QY 222 FDRGVYQHRVYQDQGFATIKSYIEENRQ PAHRELEKIMAMLTLSKINAOHTQ 290
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 472 PIRKQYIKQKAAVAKIQLPQIILVQIKQKRYQHTNQH FALIKSLIKRPINHBAR 428
QY 281 KLI--RIQDIIHPATPIMQELPQI 302
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 429 MIMSKRVNI HKP--TPIICFTIMQV 450

RESULT 25
PCT-US95-16411-2
: Sequence 2: Application PC/US9516411
: GENERAL INFORMATION:
: APPLICANT: Moore, David
: APPLICANT: Choi, Hwang-Sik
: APPLICANT: Seoul, Wonai
: TITLE OF INVENTION: RETINOID X RECEPTOR INTERACTING
: TITLE OF INVENTION: POLYPEPTIDES AND RELATED MOLECULES AND METHODS
: NUMBER OF SEQUENCES: 17
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Fish & Richardson P.C.
: STREET: 225 Franklin Street, Suite 4100
: CITY: Boston
: STATE: MA
: COUNTRY: USA
: ZIP: 02110-2804
: COMPUTER READABLE FORM:
: MEDIUM TYPE: floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC DOS/MS DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.40
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: PCT/US95/16411
: FILING DATE:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/372,652
: FILING DATE: 13 JAN-1995
: ATTORNEY/AGENT INFORMATION:
: NAME: Clark, Paul T.
: REGISTRATION NUMBER: 30,162
: REFERENCE/DOCKET NUMBER: 00786/246001
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 617/542-5070
: TELEFAX: 617/542-8906
: TELEX: 200154
: INFORMATION FOR SPO ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 451 amino acids
: TYPE: amino acid
: STRANDNESS: not relevant
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: PCT US95-16411-2

Query Match 14.84: Score 234.5; DB 5: Length 451;
Post Local Similarity 41.98; Pred. No. 8.2e-17;
Matches 65; Conservative 41; Mismatches 85; Indels 13; Gaps 7;

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CITY: Los Angeles  
STATE: CA  
COUNTRY: USA  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM pc compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/372,183  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Keltner, Stephen E.  
REGISTRATION NUMBER: 41,192  
REFERENCE/DOCKET NUMBER: P41 9844  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 619-546-4737  
TELEFAX: 619-546-9392  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 469 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-372-183-2

Query Match 14.6% Score 231.5; DB 3; Length 469;  
Best local Similarity 42.5% Ident. No. 1,86-16;  
Matches 67; Conservative 42; Mismatches 80; Indels 17; Gaps 9;

QY 105 KEISLPH--MDMSTYFKGIIISFAKVISYRDLPTFQGISLKAAFLVQLENT 161  
DB 272 KEESAEENLLLEMAISVQILVEFTKRLPGFQTLHEQJALIKGSAVEAMFIRSAE 341  
QY 162 VFNAE--TGWEGRLSYGLIEDTAGGFQQLLEPMKEHYMKKIQHEEYVMAIST 219  
DB 332 LFNKKLLPDTQCKKKE--ERASPMK--YITPMSPYSKSVGLKMGQGEYVALIAVI 487  
QY 220 FSPDRGVQLGRVVDQJQEPATILKSYIEYNRDQ--PAHFLFLKIMAMTELRSINAGH 278  
DB 488 LSPDRGVQLGRVVDQJQEPATILKSYIEYNRDQ--PAHFLFLKIMAMTELRSINAGH 444  
QY 279 TQRLT--RIQDHPATPLMQLFGI 302  
DB 445 AEMLSMRVND--HKE--TFLDCEIMDV 468

RESULT 29  
US-09-469-721-2  
Sequence 2, Application US/09459721  
Patent No. 6184153  
GENERAL INFORMATION:  
APPLICANT: Evans, Ronald M.  
APPLICANT: Forman, Barry M.  
APPLICANT: Weinberger, Gary A.  
TITLE OF INVENTION: METHOD FOR MODULATING PROCESSES MEDIATED  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Peetly, Schroeder, Bruggemann & Clark  
STREET: 444 South Flower Street, Suite 2000  
CITY: Los Angeles  
STATE: CA  
COUNTRY: USA  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM pc compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/469,721  
FILING DATE:  
CLASSIFICATION:  
PUBLICATION DATA:  
APPLICATION NUMBER: US/08/372,183  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Keltner, Stephen E.  
REGISTRATION NUMBER: 41,192  
REFERENCE/DOCKET NUMBER: P41 9844  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 619-546-4737  
TELEFAX: 619-546-9492  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 469 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-469-721-2

Query Match 14.6% Score 231.5; DB 4; Length 469;  
Best local Similarity 42.5% Ident. No. 1,86-16;  
Matches 67; Conservative 42; Mismatches 80; Indels 17; Gaps 9;

QY 105 KEISLPH--MDMSTYFKGIIISFAKVISYRDLPTFQGISLKAAFLVQLENT 161  
DB 272 KEESAEENLLLEMAISVQILVEFTKRLPGFQTLHEQJALIKGSAVEAMFIRSAE 341  
QY 162 VFNAE--TGWEGRLSYGLIEDTAGGFQQLLEPMKEHYMKKIQHEEYVMAIST 219  
DB 332 LFNKKLLPDTQCKKKE--ERASPMK--YITPMSPYSKSVGLKMGQGEYVALIAVI 487  
QY 220 FSPDRGVQLGRVVDQJQEPATILKSYIEYNRDQ--PAHFLFLKIMAMTELRSINAGH 278  
DB 388 LSPDRGVQLGRVVDQJQEPATILKSYIEYNRDQ--PAHFLFLKIMAMTELRSINAGH 444  
QY 279 TQRLT--RIQDHPATPLMQLFGI 302  
DB 445 AEMLSMRVND--HKE--TFLDCEIMDV 468

RESULT 30  
US-09-696-443-2  
Sequence 2, Application US/09696443  
Patent No. 6416957  
GENERAL INFORMATION:  
APPLICANT: Evans, Ronald M.  
APPLICANT: Forman, Barry M.  
APPLICANT: Weinberger, Gary A.  
TITLE OF INVENTION: METHOD FOR MODULATING PROCESSES MEDIATED  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Peetly, Schroeder, Bruggemann & Clark  
STREET: 444 South Flower Street, Suite 2000  
CITY: Los Angeles  
STATE: CA  
COUNTRY: USA  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM pc compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/696,443  
FILING DATE: 24-Oct-2000  
CLASSIFICATION: Unknown  
PUBLICATION DATA:  
APPLICATION NUMBER: 08/372,183  
FILING DATE: Unknown  
ATTORNEY/AGENT INFORMATION:



LENGTH: 461 amino acids  
 TYPE: amino acid  
 STRANDEDNESS:  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-764-870-3

Query Match 14.4% Score 228; DB 4; Length 461;  
 Best Local Similarity 27.1% Pred. No. 4,26-16;  
 Matches 72; Conservative 41; Mismatches 125; Indels 28; Gaps 8;

UY 54 ELPESTL--CAPSRREAAKSVQRKDLSTLKVSJLQKEDDSVWYKPP----- 99  
 DB 203 ELQKSTGKHPPEDDE---WELL-KYVFAHVAIQAQ---GSHKKQKPKLEPILQCAP1 255  
 UY 100 --ADSGKEIFSLPIHMAQMSYWEKGIISPAKVISYFRDLPEDQISLKGAAPELQCL 157  
 DB 256 VNAPEGRKVDLEAFSHPTKLIITPAITRVVDPAKKLPMCELEPEDQITLKGQTEIMSL 415  
 UY 158 RENTVFNAETGTWEC-GRLSVGLDFTAGGQULLLEPMKHYMKKLEQLHREEVYIMQA 216  
 DB 316 KAAVRYDEPSETLILNDEKAVIRQOLKNGGLGVVSDAFLDKMSLSSPFIADITFVALQA 475  
 UY 217 ILSPPRPVYLQHRVVQLODFATILKSYTEPNRPQPAHRELEKIMAMTELKSLNA 276  
 DB 376 VLLMSRPGLACVKEIKRYQJSLAFPHYINRKIHVTH--FWRLMKKVTILRMGA 444  
 UY 277 QHTQRLRLQDTHP--FAPIIMQELF 400  
 DB 444 CHASRFLLMKVCEPTLEPLPLEVF 459

## RESULT 33

US-08-980-115-4  
 ? Sequence 3, Application US/08980115  
 ? Patent No. 6266622  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Scanlan, Thomas S.  
 ? APPLICANT: Barker, John D.  
 ? APPLICANT: Fletterick, Robert J.  
 ? APPLICANT: Wagner, Richard L.  
 ? APPLICANT: Kushner, Peter J.  
 ? APPLICANT: Applecotti, James W.  
 ? APPLICANT: West, Brian L.  
 ? APPLICANT: Shiao, Andrew K.  
 ? TITLE OF INVENTION: NUCLEAR RECEPTOR LIGANDS AND LIGAND BINDING DOMAINS  
 ? FILE REFERENCE: PICAL-246/0205  
 ? CURRENT APPLICATION NUMBER: US/08/980,115  
 ? EARLIER FILING DATE: 1997-11-26  
 ? EARLIER APPLICATION NUMBER: 08/764,870  
 ? EARLIER FILING DATE: 1996-12-14  
 ? EARLIER APPLICATION NUMBER: 60/008,606  
 ? EARLIER FILING DATE: 1995-12-14  
 ? EARLIER APPLICATION NUMBER: 60/008,543  
 ? EARLIER FILING DATE: 1995-12-13  
 ? EARLIER APPLICATION NUMBER: 60/008,540  
 ? EARLIER FILING DATE: 1995-12-13  
 ? NUMBER OF SEQ ID NOS: 17  
 ? SOFTWARE: Patent In Vcr, 2.0  
 ? SEQ ID NO 3  
 ? LENGTH: 461  
 ? TYPE: PRT  
 ? ORGANISM: Homo sapiens  
 ? FEATURES:  
 ? NAME/KEY: DOMAIN  
 ? LOCATION: (211)-(461)  
 ? OTHER INFORMATION: minimal ligand binding domain  
 US-08-980-115-3

Query Match 14.4% Score 228; DB 4; Length 461;  
 Best Local Similarity 27.1% Pred. No. 4,26-16;  
 Matches 72; Conservative 41; Mismatches 125; Indels 28; Gaps 8;

UY 54 ELPESTL--CAPSRREAAKSVQRKDLSTLKVSJLQKEDDSVWYKPP----- 99  
 DB 203 ELQKSTGKHPPEDDE---WELL-KYVFAHVAIQAQ---GSHKKQKPKLEPILQCAP1 255  
 UY 100 --ADSGKEIFSLPIHMAQMSYWEKGIISPAKVISYFRDLPEDQISLKGAAPELQCL 157  
 DB 256 VNAPEGRKVDLEAFSHPTKLIITPAITRVVDPAKKLPMCELEPEDQITLKGQTEIMSL 415  
 UY 158 RENTVFNAETGTWEC-GRLSVGLDFTAGGQULLLEPMKHYMKKLEQLHREEVYIMQA 216  
 DB 316 KAAVRYDEPSETLILNDEKAVIRQOLKNGGLGVVSDAFLDKMSLSSPFIADITFVALQA 475  
 UY 217 ILSPPRPVYLQHRVVQLODFATILKSYTEPNRPQPAHRELEKIMAMTELKSLNA 276  
 DB 376 VLLMSRPGLACVKEIKRYQJSLAFPHYINRKIHVTH--FWRLMKKVTILRMGA 444  
 UY 277 QHTQRLRLQDTHP--FAPIIMQELF 400  
 DB 444 CHASRFLLMKVCEPTLEPLPLEVF 459

## RESULT 44

5221606-4  
 ? Patent No. 5221606  
 ? APPLICANT: ELAMIDIN DE THE, HUGHES, MARC HO, AGNES, TIOUATIS,  
 ? PIKREGEDEBAN, ANNE  
 ? TITLE OF INVENTION: STEROID/THYROID HORMONE RECEPTOR-RELATED  
 ? PROTEIN INAPPROPRIATELY EXPRESSED IN HUMAN DEVIATIONELLULAR CARCINOMA  
 ? NUMBER OF SEQUENCES: 11  
 ? CURRENT APPLICATION DATA:  
 ? APPLICATION NUMBER: 05/07144,140  
 ? FILING DATE: 17-DEC-1987  
 ? PRIOR APPLICATION DATA:  
 ? SEQ ID NO: 4  
 ? LENGTH: 355  
 5221606-4

Query Match 13.8% Score 219; DB 6; Length 455;  
 Best Local Similarity 26.7% Pred. No. 2,76-15;  
 Matches 71; Conservative 41; Mismatches 126; Indels 26; Gaps 8;

UY 54 ELPESTL--CAPSRREAAKSVQRKDLSTLKVSJLQKEDDSVWYKPP----- 99  
 DB 97 ELQKSTGKHPPEDDE---WELL-KYVFAHVAIQAQ---GSHKKQKPKLEPILQCAP1 149  
 UY 100 --ADSGKEIFSLPIHMAQMSYWEKGIISPAKVISYFRDLPEDQISLKGAAPELQCL 157  
 DB 150 VNAPEGRKVDLEAFSHPTKLIITPAITRVVDPAKKLPMCELEPEDQITLKGQTEIMSL 209  
 UY 158 RENTVFNAETGTWEC-GRLSVGLDFTAGGQULLLEPMKHYMKKLEQLHREEVYIMQA 216  
 DB 210 KAAVRYDEPSETLILNDEKAVIRQOLKNGGLGVVSDAFLDKMSLSSPFIADITFVALQA 269  
 UY 217 ILSPPRPVYLQHRVVQLODFATILKSYTEPNRPQPAHRELEKIMAMTELKSLNA 276  
 DB 270 VLLMSRPGLACVKEIKRYQJSLAFPHYINRKIHVTH--FWRLMKKVTILRMGA 427  
 UY 277 QHTQRLRLQDTHP--FAPIIMQELF 400  
 DB 428 CHASRFLLMKVCEPTLEPLPLEVF 459

## RESULT 45

US-08-653-648A-14  
 ? Sequence 14, Application US/08654048A  
 ? Patent No. 6379945  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Jepson, Ian  
 ? APPLICANT: Greenland, Andrew  
 ? APPLICANT: Martinecz, Alberto  
 ? TITLE OF INVENTION: A G-protein Switch  
 ? FILE REFERENCE: 199500477US  
 ? CURRENT APPLICATION NUMBER: US/08/653,648A

$$\begin{aligned} &P\left(\left\|\left(M_{\lambda}\left(\left\{V_{\lambda}\right\}\right)\right)^{\frac{1}{2}}\left(F_{\lambda}\left(\left\{V_{\lambda}\right\}\right)\right)^{\frac{1}{2}}\right\|_{\mathcal{H}} \leq 1+\epsilon\right) \\ &\leq P\left(\left\|\Lambda_{\lambda}^{\frac{1}{2}}\left(F_{\lambda}\left(\left\{V_{\lambda}\right\}\right)\right)^{\frac{1}{2}}\right\|_{\mathcal{H}} \leq 1+\epsilon\right) \end{aligned}$$

TABLE A1: A110N NUMBER: 600/0008, 5410



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1 EARLIER FILING DATE: 1995-12-14
2 NUMBER OF SEQ ID NOS: 17
3 SOFTWARE: PatentIn Ver. 2.0
4 SEQ ID NO: 2
5 LENGTH: 410
6 TYPE: prt
7 ORGANISM: Homo sapiens
8 FEATURE:
9 NAME/KEY: DOMAIN
10 LOCATION: (157)..(410)
11 OTHER INFORMATION: minimal ligand binding domain
12
13 OS: 08-960-115-2

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Query Match	14.6%	Score 206.5	DB 4	Length 410
Best Local Similarity	45.2%	pred. No. 7, 30-14		
Matches	70	Conservative	113	Indels 53
		Mismatches	113	Gaps
				n

CY	63	SPPFAAWSOVKRDLOSLKVSQJLGE	-----	INOSVWYKFI	98
		-- -- -- -- -- -- -- --			
DB	141	NRRRREEMIR----	SLOORPEPTPEMDLI	THATFAIRSTNOGSHMKORPKFL	192

193 PDIGGSLVSMGDKVDLEAFSEFTKIITATIRVDFAKRLMSELEQIILIK 252

208 EEEYVIMGALSI ESDPDRAIVL CHEYMDL QOEQA LTKSVL EENNPDVAHEEL EL KTNM 412

268	ITIKRSINAOHTORLIRIQ-----DIMFEATPIMOELF	300
269	ITIKRSINAOHTORLIRIQ-----DIMFEATPIMOELF	300
270	ITIKRSINAOHTORLIRIQ-----DIMFEATPIMOELF	300
271	ITIKRSINAOHTORLIRIQ-----DIMFEATPIMOELF	300
272	ITIKRSINAOHTORLIRIQ-----DIMFEATPIMOELF	300
273	ITIKRSINAOHTORLIRIQ-----DIMFEATPIMOELF	300
274	ITIKRSINAOHTORLIRIQ-----DIMFEATPIMOELF	300
275	ITIKRSINAOHTORLIRIQ-----DIMFEATPIMOELF	300
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279	ITIKRSINAOHTORLIRIQ-----DIMFEATPIMOELF	300
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300	ITIKRSINAOHTORLIRIQ-----DIMFEATPIMOELF	300

ED 371 WTLBRLGAGHANSRPLMKKVEPTLELP--PLPLVE 405

Patent No. 5,438,126  
Applicant: DERRICK, J.; NAKAI, AKIRA  
Title of Invention: HUMAN TGF- $\beta$  HORMONE RECEPTOR DNA

1 CURRENT APPLICATION DATA:  
2 APPLICATION NUMBER: US/97/830,766  
3 FILING DATE: 03-FEB-1992

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1  :
2  : APPLICATION NUMBER: 405,342
3  :
4  : FILING DATE: 11-SEP 1989
5  :
6  : SEQ ID NO:2
7  :
8  : LENGTH: 410

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343120.2	
Query Match	13.0%
Host local Similarity	25.2%
Score	206.5; DB 6;
Pred No.	7.3e-14;
Length	410;

63 SREBARNOSOVERKOL'ST.KVLOTORGE.....DRESVANKP..... 98

97	PAUSGKREJEST	-----	LEHMASTYMEKGIISPAKVIISYRPULEDOJSTIK	148
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104	EDDIOGSIYVIMDOKKOTI	EAEESEEFK	ITBAITRYVAFARKIOMSESTIKK	252
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149 GAARFOLKPFVFNALQJWE-GRUSYCLPTAGSOQULLEPMLKHYMKRKLJAH 207  
DB 258 GCMETMSRAAVYDPSDITLISQFMAVRREOLKNGGLAVVSAIFEAARSLNAPNID 312

09	EEHVAALIMASTIPEEDRIVAJAHVANDI OJEFATIKUSTEERINPOHJATUKIMAN	26,7
208	EEHVAALIMASTIPEEDRIVAJAHVANDI OJEFATIKUSTEERINPOHJATUKIMAN	26,7
413	ETEVALLIMASTIPEEDRIVAJAHVANDI OJEFATIKUSTEERINPOHJATUKIMAN	47,0

Uy	266	ITHTRSNAQTCGRLEIQ	DIHPATLQMLELP	305
Lb	371	VTDIRMCAVHASRFLMKVDEPTEELFP	-PQLELV	405

RESOL. 49  
US-OR-764-870-1  
Section 1. Application US708764870

1 FACTORY NO.: 01270293  
2 GENERAL INFORMATION:  
3 APPLICANT: Scandlo, Thomas S  
4 APPLICANT: Baxter, John D

APPLICANT: Wagner, Richard L.  
APPLICANT: Kushner, Peter J.  
APPLICANT: Applefield, James W.

1 TITLE OF INVENTION: Nuclear Receptor Ligands  
2  
3 TITLE OF INVENTION: Binding Domains  
4  
5 NUMBER OF SEQUENCES: 16  
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ADDRESS: 10000 COWARD  
STREET: Five Palo Alto Square,  
CLIFF: Palo Alto  
STATE: CA

ZIP: 94306  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
CONTENTS: TITL NO

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: OPERATING SYSTEM: PCL/MS-DOOS
: SOFTWARE: Patent In Release #1.0, Version #1
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: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US-08/764, 870
:
:

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CLASSIFICATION: 540  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 600/008,540

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1 PRIOR APPLICATION DATA:
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3 APPLICATION NUMBER: US 60/008,543
4
5 FILING DATE: 13-DEC-1995
6
7 PRIOR APPLICATION DATA:

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1 APPLICATION NUMBER: 05 607006, 006  
2  
3 FILING DATE: 14 DEC 1995  
4  
5 ATTORNEY/AGENT INFORMATION:  
6  
7 NAME: Nakamura, Jackie N

REFERENCE/ORDER NUMBER: 07AL 246/0105  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (650) 843-5000

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: SEQUENCE CHARACTERISTICS:
:     LENGTH: 410 amino acids
:     TYPE: amino acid
:     STRANDEDNESS:

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MOLECULE TYPE: protein  
 US-08-764-870-1

Host Local Similarity 24.88; Prod. No. 2014;  
Matches 69; Conservative 44; Mismatches 11

[illegible]

1b 193 FDDGGSTIVSMFDGDKVLEAFSEETK111PA11RVVDPAV



Genome version 5.1.4.P5\_4578  
Copyright (c) 1994 - 2003 CompuGen Ltd.

OM protein protein search, using sw model

Run on: April 15, 2003, 11:21:47 : Search time 24.3679 seconds

(without alignments)

1088-854 Million cell updates/sec

Title: 08-09-276-935d-14

Sequence: 1 LEVPRKESWNIADVEHVGCHD.....QDHPATPLMGLFCTGS 444

Scoring table: BLAST0M62

Gapop 10.0, Gapext 0.5

Searched: 248812 seqs, 61136040 residues

Total number of hits satisfying chosen parameters: 248812

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: Published Applications\_AA\*

1: /cgn2\_6/ptodata/2/pubpaa/US08\_NEM\_PUB.pep.\*  
2: /cgn2\_6/ptodata/2/pubpaa/PTC\_NEM\_PUB.pep.\*  
3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEM\_PUB.pep.\*  
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14: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query length	DB ID	Description
1	2289	100.0	473 9	US-09-143-828-4
2	2287	99.9	434 9	US-09-143-828-2
3	2171	98.8	434 9	US-09-227-718-2
4	979.5	42.8	386 9	US-10-153-827-2
5	768	43.6	348 10	US-09-760-364-1
6	762.5	43.3	359 10	US-09-760-364-9
7	725	31.7	358 10	US-09-760-364-2
8	574.5	25.1	286 10	US-09-883-093-2
9	574.5	25.1	286 10	US-09-760-364-4
10	498	21.8	451 12	US-10-013-823-3
11	489	21.4	446 12	US-10-013-823-2
12	487	21.3	446 10	US-09-909-446-2
13	487	21.3	446 10	US-09-909-446-2
14	487	21.3	446 10	US-09-909-446-2
15	479.5	20.9	257 10	US-09-814-569-1
16	463.5	20.2	476 9	US-10-188-721-1
17	454	19.8	469 9	US-10-155-379-2
18	432	18.9	746 9	US-09-042-488B-7
19	429	18.7	448 9	US-09-814-604-2

20	429	18.7	448 10	US-09-797-727-4	Sequence 4, Appl 1
21	425	18.6	425 10	US-09-965-703-16	Sequence 16, Appl 1
22	413	18.0	462 9	US-09-814-604-1	Sequence 1, Appl 1
23	413	18.0	462 9	US-09-797-727-3	Sequence 3, Appl 1
24	412	18.0	606 10	US-09-952-559-3	Sequence 3, Appl 1
25	412	18.0	1641 9	US-09-042-488B-9	Sequence 9, Appl 1
26	410	17.9	746 9	US-09-042-488B-5	Sequence 5, Appl 1
27	406.5	17.8	412 10	US-09-965-703-11	Sequence 11, Appl 1
28	406.5	17.8	412 10	US-09-965-703-12	Sequence 12, Appl 1
29	406.5	17.8	440 10	US-09-965-703-71	Sequence 71, Appl 1
30	406.5	17.8	513 10	US-09-965-703-59	Sequence 59, Appl 1
31	392	17.1	454 9	US-09-814-604-3	Sequence 3, Appl 1
32	392	17.1	454 9	US-09-797-727-2	Sequence 2, Appl 1
33	391	17.1	1237 9	US-10-108-605-211	Sequence 211, Appl 1
34	372.5	16.3	750 9	US-10-005-337A-3	Sequence 3, Appl 1
35	372	16.3	505 10	US-09-765-111A-16	Sequence 16, Appl 1
36	372	16.3	777 10	US-09-765-111A-2	Sequence 2, Appl 1
37	372	16.3	811 10	US-09-765-111A-4	Sequence 4, Appl 1
38	372	16.3	840 10	US-09-765-111A-4	Sequence 4, Appl 1
39	372	16.3	874 10	US-09-765-111A-6	Sequence 6, Appl 1
40	371	16.2	478 12	US-10-142-373-2	Sequence 2, Appl 1
41	370.5	16.2	478 10	US-09-765-111A-27	Sequence 27, Appl 1
42	370.5	16.2	506 12	US-10-109-886-6	Sequence 6, Appl 1
43	370.5	16.2	516 10	US-09-895-840-2	Sequence 2, Appl 1
44	362.5	15.8	440 9	US-10-179-403-2	Sequence 2, Appl 1
45	362.5	15.8	440 12	US-10-013-807-2	Sequence 2, Appl 1

#### ALIGNMENTS

##### RESULT 1

US-09-143-828-4

Sequence 4, Application US/09143828

Publication No. US20040032790A1

GENERAL INFORMATION

APPLICANT: Pharmacia & Upjohn

TITLE OF INVENTION: No. US20040032790A1 Vitamin D Receptor Related Polypeptides,

FILE REFERENCE: 10806-6

CURRENT APPLICATION NUMBER: US-09/143,828

NUMBER OF SEQ ID NOS: 4

SOFTWARE: PatentView 2.0

SEQ ID NO 4

LENGTH: 473

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: [deduced amino

OTHER INFORMATION: acid sequence of vitamin D receptor related

US-09-143-828-4

Query Match

Best Local Similarity 100.0% Score 2289; DB % Length 473;

Matches 444; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	LEVPRKESWNIADVEHVGCHD.....QDHPATPLMGLFCTGS 60
DB	40	LEVPRKESWNIADVEHVGCHD.....QDHPATPLMGLFCTGS 99
QY	61	CKGPRKAMKNAKIKCTFKKGAETIKTKKQVAELKAKTESAKKKKIMSLAEVEE 120
DB	100	CKGPRKAMKNAKIKCTFKKGAETIKTKKQVAELKAKTESAKKKKIMSLAEVEE 119
QY	121	KKALKKKSSRTCTOPLAVGCTTEEDRMIRLIMAKKFTPTFSPKKKRLGVSS 180
DB	110	KKALKKKSSRTCTOPLAVGCTTEEDRMIRLIMAKKFTPTFSPKKKRLGVSS 219
QY	181	GCELPESIQASREDAKWSQVKRDKLSKVSQIQKQSGSVVYKQYANSGKPEFSL 240
DB	220	GCELPESIQASREDAKWSQVKRDKLSKVSQIQKQSGSVVYKQYANSGKPEFSL 279

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07 241 FHMALMSTYMKKLSIAKAVISYFRODLEQJLSLKGAPELQURENIVNAETWE 400
14b 240 FHMALMSTYMKKLSIAKAVISYFRODLEQJLSLKGAPELQURENIVNAETWE 400
07 401 CQRLSYLEJFAVZGOLLELMKRYMKKKQLHEEYVLMQALSLSPDQVYQHR 400
14b 400 VVWJGQGFALTKSYFERNQGFABHRELEKIMAMLELKSINAQHTQRLKQDHRF 420
07 421 ATTMODELPTIOS 444
14b 420 ATTMODELPTIOS 474

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RESULT 2

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US 09 143 628 2
1 Sequence 2: Application US/09/143628
2 Publication No. US200402790A1
3 GENERAL INFORMATION:
4 APPLICANT: Pharmacia & Upjohn
5 TITLE OF INVENTION: No. US200402790A1 Vitamin D Receptor Related Polypeptides, No.
6 FILE REFERENCE: 10806 65
7 CURRENT APPLICATION NUMBER: US/09/143,628
8 NUMBER OF SEQ TO NOS: 4
9 REFERENCE: Patent to Vol. 2,0
10 SEQ TO No. 2
11 LENGTH: 444
12 TYPE: PRT
13 ORGANISM: Artificial Sequence
14 FEATURE:
15 OTHER INFORMATION: Description of Artificial Sequence: (described and)
16 OTHER INFORMATION: acid sequence of vitamin D receptor related protein
17 OTHER INFORMATION: (Work) 1
18 US 09 143 628 2

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Query Match: 99.98% Score: 220/2 PR 91 Length: 444

Best Local Similarity: 99.98% Prod. No. 1,40,2109

Mismatches: 444 Conserved: 12 Mismatches: 05 Indels: 05 Gaps: 05

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07 1 LEVAKRESWNADIVHREHVSQKSVNADREVAHQVQKAVYHVMVQV 60
14b 1 LEVAKRESWNADIVHREHVSQKSVNADREVAHQVQKAVYHVMVQV 60
07 61 CQRLSYLEJFAVZGOLLELMKRYMKKKQLHEEYVLMQALSLSPDQVYQHR 120
14b 61 CQRLSYLEJFAVZGOLLELMKRYMKKKQLHEEYVLMQALSLSPDQVYQHR 120
07 121 FHMALMSTYMKKLSIAKAVISYFRODLEQJLSLKGAPELQURENIVNAETWE 180
14b 121 FHMALMSTYMKKLSIAKAVISYFRODLEQJLSLKGAPELQURENIVNAETWE 180
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14b 141 CQRLSYLEJFAVZGOLLELMKRYMKKKQLHEEYVLMQALSLSPDQVYQHR 240
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07 641 VVWJGQGFALTKSYFERNQGFABHRELEKIMAMLELKSINAQHTQRLKQDHRF 420
14b 641 VVWJGQGFALTKSYFERNQGFABHRELEKIMAMLELKSINAQHTQRLKQDHRF 420

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07 421 ATTMODELPTIOS 444
14b 421 ATTMODELPTIOS 444

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RESULT 4

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US 09 227 718 2
1 Sequence 2: Application US/09/227718A
2 Publication No. US2004004488A1
3 GENERAL INFORMATION:
4 APPLICANT: Eczema, Ronald M.
5 TITLE OF INVENTION: NOVEL STEROID-ACTIVATED MIMETIC
6 FILE REFERENCE: SAKK2270-1
7 CURRENT APPLICATION NUMBER: US/09/227,718A
8 NUMBER OF SEQ TO NOS: 45
9 REFERENCE: Patent to US 09/005,266
10 FILE REFERENCE: 1998 01 09
11 SOFTWARE: FastSeq for Windows Version 4.0
12 SEQ TO No. 2
13 LENGTH: 444
14 TYPE: PRT
15 ORGANISM: Homo sapiens
16 FEATURE:
17 OTHER INFORMATION: Xaa is threonine
18 US 09 227 718 2

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Query Match: 99.98% Score: 217/2 PR 91 Length: 444

Best Local Similarity: 99.98% Prod. No. 1,40,199

Mismatches: 419 Conserved: 22 Mismatches: 16 Indels: 05 Gaps: 05

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07 1 LEVAKRESWNADIVHREHVSQKSVNADREVAHQVQKAVYHVMVQV 60
14b 1 LEVAKRESWNADIVHREHVSQKSVNADREVAHQVQKAVYHVMVQV 60
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14b 61 CQRLSYLEJFAVZGOLLELMKRYMKKKQLHEEYVLMQALSLSPDQVYQHR 120
07 121 FHMALMSTYMKKLSIAKAVISYFRODLEQJLSLKGAPELQURENIVNAETWE 180
14b 121 FHMALMSTYMKKLSIAKAVISYFRODLEQJLSLKGAPELQURENIVNAETWE 180
07 141 CQRLSYLEJFAVZGOLLELMKRYMKKKQLHEEYVLMQALSLSPDQVYQHR 240
14b 141 CQRLSYLEJFAVZGOLLELMKRYMKKKQLHEEYVLMQALSLSPDQVYQHR 240
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07 401 CQRLSYLEJFAVZGOLLELMKRYMKKKQLHEEYVLMQALSLSPDQVYQHR 400
14b 401 CQRLSYLEJFAVZGOLLELMKRYMKKKQLHEEYVLMQALSLSPDQVYQHR 400
07 641 VVWJGQGFALTKSYFERNQGFABHRELEKIMAMLELKSINAQHTQRLKQDHRF 420
14b 641 VVWJGQGFALTKSYFERNQGFABHRELEKIMAMLELKSINAQHTQRLKQDHRF 420

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```

Inosono, Kazuhiko
TITLE OF INVENTION: A NOVEL RXR-DEPENDENT SIGNALING PATHWAY
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Gray Cary Ware & Freidenreich, LLP
STREET: 4165 Executive Dr., Suite 1600
CITY: San Diego
STATE: CA
COUNTRY: USA
ZIP: 92121
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/153,827
FILING DATE: 21-May-2002
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/875,082
FILING DATE: <unknown>
APPLICATION NUMBER: US 08/374,445
FILING DATE: 17-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Reiter, Stephen E.
REGISTRATION NUMBER: 43,192
REFERENCE/DOCKET NUMBER: 141 9887
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-677-1409
TELEFAX: 619-677-1465
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 386 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SFO ID NO: 2:
US-10-153-827-2

Query Match 42.8% Score 979.57 DB 97 Length 386
Host Local Similarity 48.6% Pred. No. 136-852
Matches 202: Conservative 60; Mismatches 105; Indels 49; Gaps 9;

DB 18 EFTESVGRKPSVNADEHVGTPQICVCGDKATCYHFNVTGSCGKFFERRAKKRNALRG 77
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
DB 14 EEEEDASNSGSGEDEDQDPRICRAGDGRATGYHFNAMTCGCKGFFERRAKRNALRG 73
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
DB 78 PERKAGCEITRKTRICQACRLKCKEESCKRKMIMSDAVEERRALTRK-KSERSTG 136
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
DB 74 DP-QNSCVINKSNRRCQACRLKCKLIDISMRKELTMSDAVEDRRALTRKRLIKRLPT 132
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DB 137 PLAVQGLTEEDQRMRELMDAQKRTPTFTFSHERKNEELPGVLSGCELPESLQAVSRRA 196
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DB 133 PNVG-SLTEDQGHFLQVGAHRTKTFENFTESKNER-----PFR-- 171
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DB 197 AKMSQVRKDLCSIKVSLQIKELGCSVYMKRPDANSQKRTFSLTDPKMDSTYMRKGLIS 256
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DB 172 -----SSSDPT--QEPQATSS--SEAFMLPHTISDLVYMKGLIS 207
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DB 257 FAKVTSFKDPLEDQISLKGAPELQOLRENTVNAEGTGWEGRESYGLDAG AGGE 315
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DB 208 FAKMLPTFTSLDLEQDALKGSVAVASIKENTIVNSDITNIGWEGPTTITHEMLAPF 267
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DB 316 VQLLLEPMKLFHYMKRLQILHEEYVLMQALSTSPDRGV-QHRVVDQLQEPFATIKRS 375
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DB 268 RQFLTEFLVRLHMMKRLVQSEYVAMMAALSTFASYPGVQVQWKRLOQLQHLAALIKD 427
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DB 476 YHETNR-PPQAFHFLKLRKMLTELKSNACHTQRLKRLQVLPATPLMDLITG 430
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DB 428 FTDSQHPSPQNKILVTKIMELTELKIVNDHSKQLEIMQIDPAPFLMREVEG 483
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RESULT 5
US-09-760-364-1
Sequence 1: Application US/09760464
Patent No. US20020152479A1
GENERAL INFORMATION:
APPLICANT: Lehmann, Juegen Michael
APPLICANT: Staud, Andrew Kevin-Nan
APPLICANT: Tudarik Inc.
TITLE OF INVENTION: CAR Modulators: Screening and Treatment of
TITLE OF INVENTION: Hypercholesterolemia
FILE REFERENCE: 018761-00411005
CURRENT APPLICATION NUMBER: US/09/760,364
CURRENT FILING DATE: 2001-01-12
PRIOR APPLICATION NUMBER: US 60/176,398
PRIOR FILING DATE: 2000-01-13
NUMBER OF SEQ ID NOS: 14
SOFTWARE: Patent In Vol. 2.1
SEQ ID NO 1
LENGTH: 348
TYPE: PPT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: human constitutive androstano receptor (CAR) alpha
OTHER INFORMATION: (hCAR)
US-09-760-464-1

Query Match 44.6% Score 768 DB 107 Length 448
Host Local Similarity 42.2% Pred. No. 216-662
Matches 164: Conservative 62; Mismatches 109; Indels 94; Gaps 6;

DB 41 CRVGNQKATVBNMTGCGKGFERRAKRNARIRCEKCAVEIRKIRKQVATLR 100
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
DB 11 CVVQDQAVGHEFNALICGKGFERRAKSKSGTCTP AGSVKSLQRRPAPRLQ 69
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DB 101 KQLESCKRKMIMSDAVEERRALTRKRSRPTQTPQVATTEPQNMRELMDAQK 160
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DB 70 KLLAGMKRDMLSAEALALRRKQAKQRAQTPVQ-----LSKQELITRTIGAHRT 123
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DB 161 TFDTFSHKNEELPGVLSGCELPESLQAVSRRAKMSQVRKQVSLKVSQIKRQNG 220
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DB 124 HMGTFEGVQVGRPAHFLHNG TETPLAP ----- 153
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DB 221 SWANRKPADSGKRTFSLTDPKMDSTYMRKGLISFAKVISYFQDPLEQISLKGA 280
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DB 154 -----VLPVTHPADINTEPMQVQIKTKILVRSKLPTEQVSLKGA 198
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DB 281 FEICQIRNTVNAEGTGWEGRESYGLDAG GEQDILEPMKRYMKRLQIHRE 339
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DB 199 VETGHVNIITPGQTPNLSNPLRYTEQDARVAGVEFELTPIHGLTKKQLOJRE 258
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DB 340 VYLMQALSTSPDRGVQHRVVDQLQEPFATIKSYENRQVPAHFLKRMAMTE 399
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DB 259 VYLLAAMALSPDRGVQHRVVDQLQEPFATIKSYENRQVPAHFLKRMAMTE 316
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DB 400 LRSTNAQHQR-LKQDQHPATPLMDLITG 428
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
DB 419 LRSTNAQVQVQIGHGLSAM-MPLDLEI 446
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RESULT 6
US-09-760-464-9
Sequence 9: Application US/09760464
Patent No. US20020152479A1
GENERAL INFORMATION:
APPLICANT: Lehmann, Juegen Michael
APPLICANT: Staud, Andrew Kevin-Nan
APPLICANT: Tudarik Inc.
TITLE OF INVENTION: CAR Modulators: Screening and Treatment of
TITLE OF INVENTION: Hypercholesterolemia
FILE REFERENCE: 018761-00411005
CURRENT APPLICATION NUMBER: US/09/760,464
CURRENT FILING DATE: 2001-01-12

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QY 211 VSILKGFPGSVWYKRPVANSKKEFLSLPPHMAIMSYMEKILISFAKISFYEDDLE 270
DB 152 ----- FMHHPYPRG--PVLLTHPAHINFMVQIIRKPKOGLFESTIME 198
QY 271 DQSLKGAAPFELCOLENTVENATGTWENGLSYCLDYA-GRPOQLTFPMKRYM 429
DB 199 DQSLKGAAPFELHSLNTRCTQENFPGHLYCKMDAVHAGQVPEFLFSLHPRKN 258
QY 430 LKKLIQHEFEVYVMAALISLSP 461
DB 259 LKKLIQHEFEVYVMAALISLSP 280

RESULT 9
US-09-760-464-3
Sequence 3, Application US/09760464
Patent No. US20020152479A1
GENERAL INFORMATION:
APPLICANT: Lehmann, Jürgen; Michael
APPLICANT: Shlau, Andrew; Kean-Nan
APPLICANT: Tularik Inc.
TITLE OF INVENTION: CAR Modulators: Screening and Treatment of
FILE REFERENCE: 018781-0041005
CURRENT APPLICATION NUMBER: US/09/760,364
PRIOR APPLICATION NUMBER: US 60/176,898
PRIOR FILING DATE: 2000-01-13
NUMBER OF SEQ ID NOS: 14
SOFTWARE: Patent In Vol.: 2.1
SEQ ID NO: 3
LENGTH: 286
TYPE: PRT
ORGANISM: Mus musculus
FEATURE:
OTHER INFORMATION: mouse constitutive androstane receptor (CAR) beta 2
US-09-760-364-3

Query Match 25.1%; Score 574.5; DB 10; Length 286;
Best Local Similarity 39.1%; Pred. No. 5; 20-47;
Matches 126; Conservative 45; Mismatches 98; Indels 53; Gaps 5;

QY 31 APPFVSGPQICVCGIKATGYPHNVMTGCGCKGFFRRAKRKARLRCPKRCACETIRKT 90
DB 11 ASPEEYGPBNVCVCDRAIYGHFHALTCCKCKGFFRRKRVISLIGPCP-ASRCEVSKAV 69
QY 91 RRCQVNRRLKCLIESGKKKEMIMSDAVERERKALIKRKSSEKTIQFLCVQSLTFEGRHM 150
DB 70 RRCGPAGKIKQKCLINVCRRKMLISAFALALRRARQAGRRARAKASIQ-----INDQKEL 123
QY 151 IREIMAAQKTEDTITFSHKRNLPGVSSGCHLPESTQADSRERAKWSVVRKIDVSLK 210
DB 124 VQLLIAGNTHRHVQPLEKCFVQFKPYAVL----- 151
QY 211 VSILKGFPGSVWYKRPVANSKKEFLSLPPHMAIMSYMEKILISFAKISFYEDDLE 270
DB 152 ----- FMHHPYPRG--PVLLTHPAHINFMVQIIRKPKOGLFESTIME 198
QY 271 DQSLKGAAPFELCOLENTVENATGTWENGLSYCLDYA-GRPOQLTFPMKRYM 429
DB 199 DQSLKGAAPFELHSLNTRCTQENFPGHLYCKMDAVHAGQVPEFLFSLHPRKN 258
QY 430 LKKLIQHEFEVYVMAALISLSP 461
DB 259 LKKLIQHEFEVYVMAALISLSP 280

RESULT 10
US-10-013-824-4
Sequence 4, Application US/10013823
Patent No. US20020116731A1

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GENERAL INFORMATION:
APPLICANT: Goedert, Catherine
APPLICANT: Phillips, Russell
APPLICANT: Allen, Keith D.
APPLICANT: Zhang, Qiu
APPLICANT: Bartholdy, Helene
TITLE OF INVENTION: TRANSGENIC MICE CONTAINING REINOLIN X
TITLE OF INVENTION: RECEPTOR INTERACTING PROTEIN GENE DISORDERS
FILE REFERENCE: R-684
CURRENT APPLICATION NUMBER: US/10/013,823
CURRENT FILING DATE: 2001 12 10
PRIOR APPLICATION NUMBER: US 60/254,801
PRIOR FILING DATE: 2000 12 11
PRIOR APPLICATION NUMBER: US 60/309,404
NUMBER OF SEQ ID NOS: 5
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 3
LENGTH: 461
TYPE: PRT
ORGANISM: Homo sapiens
US-10-013-824-4

Query Match 21.8%; Score 498; DB 12; Length 461;
Best Local Similarity 29.0%; Pred. No. 2; 20-39;
Matches 126; Conservative 86; Mismatches 125; Indels 98; Gaps 14;

QY 47 GQICGIVGKATGYHFNVMTPYSSKQFFRRAKRKNAIRPFRKATFIIIRKIRKQY 95
DB 83 GELDRKVAIDKASCHYVYLSNPKKFFRRSVVRKARVYAGGGLIOMAIRRRKQY 142
QY 96 NRILKKTLESKKRKMIMSDAVERERKALIKRKSSEKTIQFLCVQSLTFEGRHM 142
DB 143 QRLKRIKFAQRRDQVLSERQIRKK--IRKQDQFUSQSVSVVQKSSSSASGCA 200
QY 143 -----LTFEGRMTRKIMAAQKTEDTITFSHKRNLPGVSSGCHLPESTQADSRERAKWSVVRKIDVSLK 183
DB 201 SPQSEASQNSGRRGQVLTAAQELMLQVLAQIQNKFSF----- 244
QY 184 LPESTQADSRERAKWSVVRKIDVSLKQSLQKQSGSVWYKRPVANSKKEFLSLHPRKN 244
DB 245 -----LQKRVLPW-----LQAD-----FQSRARQDKRA--HF 271
QY 244 ADMSTYMEKILISFAKISFYEDDLEPQSLKGAAPFELCOLENTVENATGTWENGLSYCLDYA-GRPOQLTFPMKRYM 429
DB 272 TELATTSVQELVDFAKVQVCFQIARQDIALIKASLLEIMLEAKRYNHET--EST 328
QY 302 --GRSLYCLD--TAGSPQQLLEPMLKRYMELKQLEHEFEVYVMAALISLSPRQSVYQ 358
DB 329 ELKQFTYSKDEPHRAGQVFEINPIFEFSRRMRRLGUDAVYALLAINIFSARFNVQF 488
QY 459 HRVVDQDQFATIDKSTFENRQVPHRFLFKIMAMLEIRSTNADHQL 1610 416
DB 389 PRKVALQGVVEALVSLIRKRPQIR--EPKRMKRVSLRSLSVSHQVVALRQD 440
QY 417 LHPFALPMQELFQI 431
DB 447 --KRLPILSEMDV 459

RESULT 11
US-10-013-824-2
Sequence 2, Application US/10013823
Patent No. US20020116731A1
GENERAL INFORMATION:
APPLICANT: Goedert, Catherine
APPLICANT: Phillips, Russell
APPLICANT: Allen, Keith D.
APPLICANT: Zhang, Qiu
APPLICANT: Bartholdy, Helene
TITLE OF INVENTION: TRANSGENIC MICE CONTAINING REINOLIN X
TITLE OF INVENTION: RECEPTOR INTERACTING PROTEIN GENE DISORDERS
FILE REFERENCE: R-684

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1 CURRENT APPLICATION DATA:
2 APPLICATION NUMBER: US/99/99,446
3 FILING DATE: 19 Jul 2001
4 CLASSIFICATION: - Unknown -
5
6 PRIORITY APPLICATION DATA:
7 APPLICATION NUMBER: 08/776,844
8 FILING DATE: - Unknown -
9 APPLICATION NUMBER: 08/941,546,2
10 FILING DATE: 15 Aug 1994
11
12 ATTORNEY/AGENT INFORMATION:
13 NAME: Kozlov, Stanislav A
14 REGISTRATION NUMBER: 42141
15 REFERENCE/WORKET NUMBER: 00487,04029
16
17 INTERNATIONAL INFORMATION:
18 TELEPHONE: 202-508-9100
19 TELEFAX: 202-508-9299
20
21 TELEX: - Unknown -
22
23 INFORMATION FOR SEQ ID NO: 2:
24 SEQUENCE CHARACTERISTICS:
25 LENGTH: 446 amino acids
26 TYPE: amino acid
27 STRANDNESS: single
28 TOPOLOGY: linear
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30 METHOD OF DETERMINATION:
31 SEQUENCE DESCRIPTION: SEQ ID NO: 2:
32 US 99 909 446 2
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RESULT 14                                US-09 909-426-2
Sequence 2: Application US/09909426
Patent No.: US2002012846A1
GENERAL INFORMATION:
APPLICANT: ENMARK, EVA
GUSTAFSSON, JAN
TITLE OF INVENTION: OR-1 ON ORGAN RECEPTOR PEPTIDING; TO THE NUCLEAR RECEPTOR FAMILY
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Baudet & Witcomb
STREET: 1001 G Street , NW
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20001
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPILER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/909_426
FILING DATE: 19-Jul-2001
CLASSIFICATION: A45
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/776,844
FILING DATE: 1997-06-24
APPLICATION NUMBER: UK 9418546-2
FILING DATE: 16-Aug-1994
ATTORNEY/AGENT INFORMATION:
NAME: Kagan, Sarah A
REGISTRATION NUMBER: 42141
REFERENCE/MARKET NUMBER: 004B7_04D29
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9100
TELEX: 202-508-9299
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 446 amino acids
TYPE: amino acid
STRANDNESS: single
Topology: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-909-426-2

Query Match              21-3% Score 487; DB Loc Length 446;
Best Local Similarity    28-9%; Prot. No. 2, 36 38;
Match 124: Conserved vs   84; Mismatches 120; Indels     92; Gaps    14;

0y      47 GQIQRVATKATGYHYVMIGCEKGCFRRAMKNALICPE-KCAVELIRIKTRGV 95
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Db      74 QHELTAKYALKRASHAYVALSYEG-KQFFRSVAVGDAIKRYACINSITCYMAFRKK 144
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0y      96 AFRLRKLESIMKMIMSDFVRRAILKRKKSR           LGLGP 147
       |||||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db      144 IELRIKKREAEHREQVLSEEDLRKK--LKKOCCCPPLPYPASGSARPAASTISE 191
       |||||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
0y      138 LGVGG----LLFHQMIRRMADAMKIPIIFISFKRFKLQVISNSGFPLESG 189
       |||||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db      192 ASSQGCGDEGIQLIAAGFLMIQCVAADIQNRRFS-----             229
       |||||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
0y      190 ASFEFAKWKSQVKRIULSLKYSLRGDSVVMYTKPDASKKEIFSIPHMAMSIV 249
       ::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db      240 --DVGRVTWP-----LOAD-----LYSRIARQGRKA-HFTIALT 262
```





```

1  LENGTH: 448
2  TYPE: PRT
3  ORGANISM: Human
4  FEATURES
5   NAME/KEY: misc feature
6   OTHER INFORMATION: Human RefGene Acrid Recombin beta (HsAK-beta)
7   OS: 99 797 727 4
8
9  Query Match: 18.7% Score 4297 Id: 107 Length 448
10  Best Local Similarity: 60.6%, Prod. No. 8.40 445
11  Matchos: 1422 Conserved: 607 Mismatches: 1597 Indels: 805 Gaps: 152
12
13  9  WNN  ADFVEEDEL  VPKESVNADEPVGGVQVLEKGVGKALGVHNVLTGK 62
14  45  WQHRDAQSTELQSTSELVSSSTPLDPVVKP---GVVQKSSVHGVGVAWETK 102
15  64  GTTGAAMKKNALRTTQKQWETTRKTRQGVNRELKKTLESTPKKKKMSDEVEER 122
16  103  TAT---T---T---T---T---T---T---T---T---T---T---T---T---T 154
17  103  GPKSTKSKNMLYT  HIKKIKVTKKVKIKKIGVYKQKPEVWKSKEVMD 154
18  124  ALKKKKSGRDTGATVQGLTEEDQRM  LHEIMDAOKTEPDFTSEKRNRLGVLS 180
19  155  KKKKKELSKOE  ---ETSEYMALELLKTRIKKNGTF 194
20  161  GATPEFQVAGSREFAKWSVGRKIDSLKVSGLDGTENSWNKYVVAAGKPESTL 240
21  145  DVQKSKYTLNSADH  RYKID  ---  219
22  241  FFMALMSVYMKKLLSPAKISYERPDLEQSLSKAVAEVQLRNVFNAE 321 296
23  245  KSTSLATKTKTVEKRRKRLDTGLSTAGTLLKKAQLLLKTRCTKRTTGGIMT 276
24  209  WPKMSVTEPDVAGVQGLEEMKPKPMKRLQAEFEVYVMQALSTSPQSVLQ 356
25  279  FSKMLTKRKQHNAGP  LIDVEFANQIDLEMDTEGLSALPLDQVQLE 437
26  409  EKVYQDQVATLKSTENRQVFAHREFLKIMADLEKSNAGHQLKLTQ 417
27  438  FTKVKIQEPLFAKRTYRKRSKPH  MTKTKLTKTDLKSTAKGAEKVLTKMD 495
28  438  EPPALMDEL 428
29  436  ESMETLIGEM 406
30
31  RESULT 21
32  OS: 99 965 768 16
33  Sequence: 16, Application: DS/09/965703
34  Patent No.: US20020119521A1
35  GENERAL INFORMATION:
36  APPLICANT: Kohm and Hays Company
37  APPLICANT: Paul H. Stubbs Reddy
38  APPLICANT: Kapitskaya, Marianna Zinovjevna
39  APPLICANT: Gross, David Edwin
40  TITLE OF INVENTION: No. US20020119521A1 Fedysone Receptor Based Inducible Gene E
41  FILE REFERENCE: A010208
42  CURRENT APPLICATION NUMBER: US/09/965,703
43  CURRENT FILING DATE: 2001-09-26
44  PRIOR APPLICATION NUMBER: 60/191,455
45  PRIOR FILING DATE: 2000-04-22
46  PRIOR APPLICATION NUMBER: 60/269,799
47  PRIOR FILING DATE: 2001-02-20
48  PRIOR APPLICATION NUMBER: PCT/US01/09050
49  PRIOR FILING DATE: 2001-04-21
50  NUMBER OF SEQ. ID NOS: 75
51  SOFTWARE: Patent In version 4.1
52  SEQ ID NO: 16
53  LENGTH: 626
54  TYPE: PRT
55  ORGANISM: Bosophilid melanogaster
56  FEATURES
57  NAME/KEY: misc feature
58  OTHER INFORMATION: No. US20020119521A1-1 Sequence

```



[illegible]

Q0000	Matr. No.	18-082	Spec. 412	18-082	Loc. 1041	
	Post. Lat. (S. 100° 11' E)	25° 50'	Prod. No.	1-20	402	
Mat. Nos.	1001	Chondroclavus	892	Mismotinos	1733	Loc. 1041
						caps
QY	7	ESMUNA	DEVE-DELSVNIK		ESVNADEHVN	408
	1-11	1-11	1-11	1-11	1-11	1-11
100	40.2	ESMUNA	DEVE-DELSVNIK	ESVNADEHVN	421	
QY	49	49	49	49	49	49
100	42.2	VOSEDELYANOVASVYALATYOSKYPPKRSVTSVAVYOSKYR	ADPMYMERKVO	440		
QY	96	ADPMYMERKVO	SIDEAVERKAL	1KKRKEPTOTOLVAGLIE	QK	148
100	481	PERKILAVASMPLE	VVEPNE	AMBRKKKAKRKEDEKAT	ESVNSOCHONISTASNO	540
QY	149	MMELMELAMOMK	PEDETSHEKNEKALVLSNO	PEDETSLOVSRKAKKSOVKRKN	208	
100	541	VYKRELLAMT		PEDETSLOVSRKAKKSOVKRKN	578	
QY	209	1KVSTUKECHESVNV	NYKILAVASKEKETS		1LHMAIMSTYMKOL	214
100	579	LYNV	GLAVATYK	IMVQKAVYKPESEHDEKRO	MSQPEPENSNOVUSPKH	1ETTL1VGL1 637

```

QY 255 ISPAKVSFMDPDEEDSILKGAPELQULF-----NIVNAETGIMEGRESEY 366
| 111 : | : | 11111111 : | : | 11111111 : | : | 11111111 : | : |
DB 648 VEFKQIAIAFKIKVQEDTILTKASVVMKRAKRYDHSSDIFPANNKSYT--RDSY 695
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 407 GLEDTANGQDULLEPMKLFHYMKIKLQIHDEEYVLMOALISPSDRGVQJHRYVQJQ 666
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 696 KMAIMADN----LEDLHFPRQMSKRVQWVEYALATATVLES--DRDGLKACQVVAIG 749
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 467 EGFATTKSYTECHN--TQPAHREPLKIMAMITFLKSTINAGHQR----- 410
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 750 SYVIDLELYT--INRCHQDSMSIWEYAKLSTITELRLTGNOAMCEPSLKIKNRILKRF 808
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 411 LIRQDHPFATPLMQLEGLT 432
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 809 LELIMDVHAI--PPSVQSHLQIT 829
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

```

## RESULT 26

US-09-042-488B-5

```

: Sequence 5, Application US/09042488B
: Patent No. US2002017756A1
: GENERAL INFORMATION:

```

```

: APPLICANT: EVANS, RONALD M.
: APPLICANT: NO, DAVID
: APPLICANT: SAEZ, ENRIQUE
: TITLE OF INVENTION: METHODS FOR MODULATING EXPRESSION OF EXOGENOUS GENES IN
: TITLE OF INVENTION: MAMMALIAN SYSTEMS, AND PRODUCTS RELATED THEREIN
: FILE REFERENCE: SAKI520-2

```

```

: CURRENT APPLICATION NUMBER: US/09/042-488B
: CURRENT FILING DATE: 1998-03-16

```

```

: PRIOR APPLICATION NUMBER: 08/974,530
: PRIOR FILING DATE: 1997-11-19

```

```

: PRIOR APPLICATION NUMBER: 08/628,830
: PRIOR FILING DATE: 1996-04-05

```

```

: NUMBER OF SEQ ID NOS: 18

```

```

: SOFTWARE: Patent In Ver. 2.1

```

```

: SEQ ID NO 5

```

```

: LENGTH: 746

```

```

: TYPE: PRT

```

```

: ORGANISM: Artificial Sequence

```

```

: FEATURE:

```

```

: OTHER INFORMATION: Description of Artificial Sequence: Recombinant

```

```

: OTHER INFORMATION: Vafecr

```

```

US-09-042-488B-5

```

```

Query Match 17.98; Score 410; DB 9; Length 746;

```

```

Best local similarity 26.8%; Pred. No. 1,le-30;

```

```

Matches 128; Conservative 89; Mismatches 174; Indels 86; Gaps 18;

```

```

QY 2 EVRPESMN--HADPFGCHDTSVSPGKPSVNAFEVGGQICGVGQDKATGYHFNMTGEG 60
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 98 DLSPESSLCNGSANSFCKAKSKKQ--PAPRYVEE---LCLVGDGRASGHVNAITGGS 151
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 61 CKGFPRAMKRNARLQKPEFKGAEKTRKTRQVQACRLKLTESGKKKEM--SHAVE 119
| 11111111 : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 152 CKVFFKRSVTKAAVYCGEGR--ACLMQYMRKKYQFCRIKRLTAGMHEFYVTPNQAM 210
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 120 FRRALIKRKRKSRRTQYLVQGLTEF-----QRMRIEMDAQMKITUTTSFKHNR 173
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 211 KRRERKAKREKDKTTPSSQHGNGSLASGGQDFVKKELLDMT----- 256
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 174 LQGVASSRTEPESLOASRREAAKWSQVRKLQSLKSLQIKGFLNSVW---NKRPAQ 240
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 257 -----CEPDQAIPLLDPELLAKVQARNPSTIYN-QIAVLYKLLWQDYEGPSE 407
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 241 SAKKELES-----LLPHMAIMSYMKGLISPAKVSFMDPDEEDSILKGA 279
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 408 EHLKRTMSQYDPSQYVSEPHITETILLVQLVVERAKGLIATKIPQDQITLTKAQ 667
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 240 AEFQVQIRF-----NIVNAETGIMEGRESEYVQJHRYVQJQ 409
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 368 SSEVVMILMMARRYDHSSDIFPANNKSYT--RDSYKMAIMADN-----LEDLHFPRQMSK 420
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

```

```

QY 442 KIQIHREEVYLMQALISPSDRGVQJHRYVQJQGFATILKSYTECHN--TQPAHRE 489
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 421 SKKAVINSEVYALATATVLES--DRDGLKACQVVAIG 478
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 490 FLKIMAMITFLKSTINAGHQR----- 412
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 479 YAKLSTITELRLTGNOAMCEPSLKIKNRILKRF 808
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

```

## RESULT 27

US-09-965-703-11

```

: Sequence 11, Application US/09965703
: Patent No. US2002019521A1
: GENERAL INFORMATION:

```

```

: APPLICANT: Rohm and Haas Company
: APPLICANT: Paliti, Subba Reddy
: APPLICANT: Kapitskaya, Marianna Zinov'yevna
: APPLICANT: Gross, Dean Elyah

```

```

: TITLE OF INVENTION: No. US2002019521A1el Ecdysone Receptor-based Inducible Gene E

```

```

: FILE REFERENCE: A01020B

```

```

: CURRENT APPLICATION NUMBER: US/09/965,703
: CURRENT FILING DATE: 2001-09-26

```

```

: PRIOR APPLICATION NUMBER: 60/191,355
: PRIOR FILING DATE: 2000-03-22

```

```

: PRIOR APPLICATION NUMBER: 60/269,799
: PRIOR FILING DATE: 2001-02-20

```

```

: PRIOR APPLICATION NUMBER: PCT/US01/09050
: PRIOR FILING DATE: 2001-03-21

```

```

: NUMBER OF SEQ ID NOS: 75

```

```

: SOFTWARE: Patent In version 3.1

```

```

: SEQ ID NO 11

```

```

: LENGTH: 412

```

```

: TYPE: PRT

```

```

: ORGANISM: Choristoneura fumiferana

```

```

: FEATURE:

```

```

: NAME/KEY: misc_feature

```

```

: OTHER INFORMATION: No. US2002019521A1el Sequence

```

```

US-09-965-703-11

```

```

Query Match 17.88; Score 406.5; DB 10; Length 412;

```

```

Best local similarity 26.7%; Pred. No. 1,le-40;

```

```

Matches 118; Conservative 87; Mismatches 150; Indels 87; Gaps 15;

```

```

QY 27 PSVNADEHVGGVQICGVGQDKATGYHFNMTGEGCKGFPRAMKRNARLQKPEFKGAEK 66
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 3 PAPRYVEE---LCLVGDGRASGHVNAITGGS 151
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 87 TRKTRQVQACRLKLTESGKKKEM--SHAVE 119
| 11111111 : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 57 DMYKRRKQVQFCRIKRLTAGMHEFYVTPNQAM 210
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 203 -----KRDQSLKVSQ-----LKRHEMSVNYKRPALSSKKELES 249
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 139 LSKLLETNKKRNIPQIANQDPLAKLWYQNG--YQDPSQDKLITQVQGMHE 194
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 240 -----LPHMAIMSYMKGLISPAKVSFMDPDEEDSILKGAPELQULF 292
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 195 NEBSITDPRQITBQITILLVQLVVERAKGLIATKIPQDQITLTKAQ 667
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 293 NAET--GIMEDGRSYVTEIAGQVQULLEPMKLFHYMKIKLQIHDEEYVLMOALISPS 461
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 255 DAAVSQVLEANNQAVTRINRYKRAKMAVATPDLHFGQMSMALDINHVALTAVTES 414
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 452 DRPVQVQIRVQJHRYVQJQGFATILKSYTECHN--TQPAHRE 489
| 11111111 : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 414 DRPQVQVQIRVQJHRYVQJQGFATILKSYTECHN--TQPAHRE 489
| 11111111 : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 410 RLKRIQIHREEVYLMQALISPSDRGVQJHRYVQJQGFATILKSYTECHN--TQPAHRE 489
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

```





```

APPLICANT: Cross, Dean Revlin
TITLE OF INVENTION: No. US20020119521A1 Fc gamma Receptor-based Inducible Gene Expr
FILE REFERENCE: A01020h
CURRENT APPLICATION NUMBER: US/09/965,703
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 69/191,455
PRIOR FILING DATE: 2000-04-22
PRIOR APPLICATION NUMBER: 60/269,799
PRIOR FILING DATE: 2001-02-20
PRIOR APPLICATION NUMBER: PCT/US01/099050
PRIOR FILING DATE: 2001-04-21
NUMBER OF SEQ ID NOS: 75
SOFTWARE: Patent version 3.1
SEQ ID NO 59
LENGTH: 513
TYPE: PRT
ORGANISM: Choriostomura famletana
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: No. US20020119521A1 Sequence
US-09-965-703-59

```

```

Query Match 17.8% Score 406.57 DB 107 Length 513
Best Local Similarity 26.5% Pred. No. 1,407
Matches 121: Conservative 90; Mismatches 155; Indels 95; Gaps 16;

```

```

QY 21 EAVPKPSVNADEEVGSHQICRVGSGKATGYHFWMTGSKGPKRKKNNALIKQPER 67
DB 80 EELSSAASSTINGSTGEGAROKKGPAPROEELCLVCGHAGSYHVALICGCKQKFER 139
QY 68 AKRNKARLCPPEKCAETTRKTRGCGARLKLKESKKEEMIINSDAVERRALIKR 127
DB 140 SVTKNNVYCKGKH AGEDMYMKRKGCGEIRLKLAVGMRDY-----VHETQAMK 193
QY 128 KSEKGTGTPGLVGLTFEQRMRIRLMDQMKPTDTHSHKNEKRLPGVLSGKTPLES 187
DB 194 K -----EKKAKKCKKCLVSTTVVD-----HMP1MO--CP----- 224
QY 188 LQAPSRFEAKKNSOV-----RKDLGSLKVSLO-----LRHGHMSVNNKP 227
DB 224 ----PPPEFARLHEVVPRLSPKLETNKOKNIPOLTAQOPLANLWYQNR-----YQ 276
QY 228 PADSGKEKLFSL-----LPMADSTYMFKGLISFAKVSFRLDPLEDT 273
DB 277 PSEDLKRTGTWQWADENFSDPRFOITKFTLLTGLVLEFPKGLGPFKATISQDPT 346
QY 274 SLKKAARELCOLRENTVNAELGTWEGKLSYGLEDIAGRGQULLEPMKLFHYMKK 442
DB 337 TLKAKSSHYMMLRVARKYDASVLEFANNQAYTRKNNRKAQMAVYLDLHFCRQWYS 496
QY 433 LQIHEEYVLMQALSFSPHRIQVYQHRVVDLQDFPALLLESYTCGNPQVNR--PLF 490
DB 497 MALDNIHVALITAVVLESIRPCLDQVLEVEIQRYVLTLLKYL-LNQLSHSARSSVY 454
QY 391 LKIMAMTELKSLNAOHTOKLTLQIHPFATLMQELGL 431
DB 456 GKTLSTLSEKRTIGMNSNMKISLKKKKLPPLEFLEMDV 495

```

```

RESULT 31
US-09-814-604-3
Sequence 3: Application US/09/14604
Publication No. US20030004517A1
GENERAL INFORMATION:
APPLICANT: Kiehn, Elliott S.
APPLICANT: Chandrahatra Roshanba A.
TITLE OF INVENTION: Methods of Detecting Dissociated Nuclear
FILE REFERENCE: P-AK 4528
CURRENT APPLICATION NUMBER: US/09/814,604
CURRENT FILING DATE: 2001-03-22
NUMBER OF SEQ ID NOS: 52
SOFTWARE: FASTSeq for Windows Version 4.0

```

```

SEQ ID NO 3
LENGTH: 454
TYPE: PRT
ORGANISM: Homo sapiens
US-09-814-604-3

```

```

Query Match 17.1% Score 392.1 DB 92 Length 454
Best Local Similarity 28.5% Pred. No. 3029
Matches 117: Conservative 69; Mismatches 155; Indels 70; Gaps 12;

```

```

QY 21 EAVPKPSVNADEEVGSHQICRVGSGKATGYHFWMTGSKGPKRKKNNALIKQPER 80
DB 72 EAVPSPPPPPPRYKPP--CFVCKDKSSGYHGVSSSEGGKGFERRSLKNMYVTC--HR 126
QY 81 KCAETTRKTRGCGARLKLKESKKEEMIINSDAVERRALIKRKRKRTSTQPLQV 140
DB 129 DKNLTINKVTRNRQYCYCLQKCFEVMGSKFAVRNRN-----KKKKVEKESSTSY 180
QY 141 QCLTEPQRMMISELMDAKMTFEDTHSHKNEKRLQVLSSTELPESLQVSPKAKKS 200
DB 181 E-LSTQLEFLLITKVKAKQETP-----PSLQGLKRTNSSAH----- 216
QY 201 QVRKDLGSLKVSLOLRGDSGVNNYKRPVADSGKEPESLALHMAIMSTYMKGLISFAK 260
DB 219 -----RVGLDQ-----GLMD-----KESLAKKCLIKLVEFAK 247
QY 261 LSEFDQLELYGSLKKAARELCOLKRNIVNAE--GTWEGKLSYGLEDIAGRGQUL 418
DB 248 LQFGLSTADQTLTKACQDILMKIKGTPTPEQDMITSDQILNRQHMNAQVNR-- 406
QY 319 LLEPMKLFHYMKKQLQIHEEYVLMQALSFSPHRIQVYQHRVVDLQDFPALLLESY 478
DB 307 LTLVYFAAGQILLPEMDTETGLSALCLIGDMMLEFPKRYKQHTLLEAKRY-- 564
QY 379 CNRPQPAHLEFLKIMAMTELKSLNAOHTOKLTLQIHPFATLMQEL 428
DB 465 AKRRPSQVYMPPEMLMKITDLKGLISKGAERKATILKMKELNMDPPLREM 415

```

```

RESULT 32
US-09-797-727-2
Sequence 2: Application US/09/97727
Patent No. US20020077457A1
GENERAL INFORMATION:
APPLICANT: The Salk Institute for Biological Studies
APPLICANT: TAKAKO, Sumitomo
TITLE OF INVENTION: GAMMA RELIN-10 ACID RECEPTOR
FILE REFERENCE: SALK1150-3
CURRENT APPLICATION NUMBER: US/09/797,727
CURRENT FILING DATE: 2001-08-31
PRIOR APPLICATION NUMBER: US 08/486,425
PRIOR FILING DATE: 1995-06-07
PRIOR APPLICATION NUMBER: US 08/100,049
PRIOR FILING DATE: 1993-07-30
PRIOR APPLICATION NUMBER: PCT/US90/03564
PRIOR FILING DATE: 1990-06-22
PRIOR APPLICATION NUMBER: US 07/470,407
PRIOR FILING DATE: 1989-06-22
NUMBER OF SEQ ID NOS: 7
SOFTWARE: Patent version 3.0
SEQ ID NO 2
LENGTH: 454
TYPE: PRT
ORGANISM: Human
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: Human ketinole Acid Receptor gamma (hRAK-gamma)
US-09-797-727-2

```

```

Query Match 17.1% Score 392.1 DB 107 Length 454
Best Local Similarity 28.5% Pred. No. 3029
Matches 117: Conservative 69; Mismatches 155; Indels 70; Gaps 12;

```





[illegible]

100	608	CPVNLIDNGLVYHAKVGHETLYTMDASIMNGLVETLSGQVPMHREPLKSKRQDPLK	726
007	417	QILLIDMKRFTMKRLKQJHEHEVYIMQVMSLSPHPSVSVLQHRVYQVLCQFPAITKSY	476
100	727	MEKPEFAVKFNLIELDMSHMAIFAVVLTLSHQRGLNVRKLTEDIQMDLALRQ	784
007	477	IPENRQVHREPLKIKMMLTEASTNGHIGRLRQ	DIHPFAITMECEP 429
100	764	EKIMHPSNSQ--LEAKLQKRMIDRLQVLEHVGVLQVTKKTEKMSIA	PLIGETV 846
RESULT 49			
US 09 765 111A 6			
Sequence 6, Application US/09765111A			
Patent No. US20020106796A1			
GENERAL INFORMATION:			
1 APPLICANT: Floctec, Jonathan A.			
2 APPLICANT: Kroll, Todd G.			
3 TITLE OF INVENTION: PAXR PARADIGM NOCTEIC ACID MODULATORS			
4 TITLE OF INVENTION: AND POLYPEPTIDES AND USES THEREOF			
5 FILE REFERENCE: 80001/7196/Pd/602			
6 CURRENT APPLICATION NUMBER: US/09/765,111A			
7 PRIORITY FILING DATE: 2001-01-18			
8 PRIOR APPLICATION NUMBER: US 60/777,109			
9 PRIOR FILING DATE: 2000-01-20			
10 PRIOR APPLICATION NUMBER: US 60/725,079			
11 PRIOR FILING DATE: 2000-08-14			
12 NUMBER OF SEQ. ID NOS: 47			
13 SEQ. ID NO. 6			
14 LENGTH: 874			
15 TYPE: PRT			
16 ORGANISM: Homo Sapiens			
US 09 765 111A 6			
Query Match 16-38; Score 472; DB 10; Length 874;			
Host Local Similarity 26-58; Prot. No. 6-20-27;			
Matches 117; Cons. value 70; Mismatches 152; Indels 86; Gaps 14;			
007	41	CPVNLKATGVYHNVNVPDCKKQFHRKAKRNARLPPPRKQVETTRKTRQVQACV	99
100	508	CPVNLKASDHYGVADCTCKQKPRRLIKKLTVDRLN	CPHKSRNKQVYPR 564
007	100	PRFTSGSKRKMMSHFAVEFKKALKKKSPRTQVGVGLTEPQPMIKELMDQ	150
100	565	CKTAVDSHNAIKPQPMQAEKELAVLSHDLQIN--PSAQKALAKHYNV	619
007	159	MKLTDFSHRNKELVLSNDELFEHLSQNR	PEAAKSVKRLQSLKSL 214
100	620	IKSHPLT	KKAKAALIKKLTQKSTVYIMNSL 652
007	214	QJEDHSWYMKPVANSDKLEFSLDPMALMSYMRG	11SAKVIS 262
100	654	MMGHRKFKHLLVQGRSKV	ALRTPGQVPRKQVAVGELTPAKSLP 701
007	264	YRPLDPLNGLSLKAHEDVQAKENVEN	ADGILWEGKSNVLEDAVDQ 416
100	702	CPVNLIDNGLVYHAKVGHETLYTMDASIMNGLVETLSGQVPMHREPLKSKRQDPLK	760
007	417	QILLIDMKRFTMKRLKQJHEHEVYIMQVMSLSPHPSVSVLQHRVYQVLCQFPAITKSY	476
100	764	MEKPEFAVKFNLIELDMSHMAIFAVVLTLSHQRGLNVRKLTEDIQMDLALRQ	817
007	477	IPENRQVHREPLKIKMMLTEASTNGHIGRLRQ	DIHPFAITMECEP 429
100	808	EKIMHPSNSQ--LEAKLQKRMIDRLQVLEHVGVLQVTKKTEKMSIA	PLIGETV 870
RESULT 50			
US 10-142 475 2			
Sequence 2, Application US/10142474			
Patent No. US20020147665A1			

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1 GENERAL INFORMATION:
2 APPLICANT: EVANS, Ronald
3 APPLICANT: PERMAN, Barry
4 TITLE OF INVENTION: MODULATORS OF PEROXISOME PROLIFERATOR ACTIVATED
5 TITLE OF INVENTION: RECEPTOR-GAMMA.
6 TITLE OF INVENTION: AND METHOD FOR THE USE THEREOF
7 FILE REFERENCE: SALK140-2
8 CURRENT APPLICATION NUMBER: US/10/142, 373
9 CURRENT FILING DATE: 2002-05-08
10 PRIOR APPLICATION NUMBER: US/09/788, 970
11 PRIOR FILING DATE: 2001-02-16
12 PRIOR APPLICATION NUMBER: US 09/955, 402
13 PRIOR FILING DATE: 1999-02-22
14 NUMBER OF SEQ ID NOS: 7
15 SOFTWARE: Patent In Version 3.0
16 SEQ ID NO. 2
17 LENGTH: 475
18 TYPE: PRT
19 ORGANISM: MUS MUSCULUS
20 US-10-142-173-2

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Query Match	16.28;	Score	471;	DB	12;	Length	475;
Best Local Similarity	25.58;	Prod. No.	3,3e-27;				
Matches	111;	Conservative	70;	Mismatches	152;	Indels	86;
						Gaps	14;

[illegible]

Search completed: April 15, 2003, 11:33:27  
Job time : 30.3679 secs



GenInfo version 5.1.4 p5.4578  
Copyright (c) 1993 - 2003 Computer, Ltd.

MM protein - protein search, using sw model

Run on: April 15, 2003, 11:18:57 : Search time 15.1249 Seconds  
(without alignments) 844.274 Million cell updates/sec

Title: US-09-276-935d-14

Perfect score: 2289

Sequence: 1 LEVRESNNHAEVHCPT.....GDHPATPLDQELRTIGS 434

Scoring table:

BLASTSUM62  
Gapop 10.0, Gapext 0.5

Searched: 262574 seqs, 20422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 100%

First 45 summaries

Database:

Issued\_Patents\_Anc\*  
1: /cgn2.6/p10data/1/1aa/5A\_COMB.pep:\*  
2: /cgn2.6/p10data/1/1aa/5A\_COMB.pep:\*  
3: /cgn2.6/p10data/1/1aa/5A\_COMB.pep:\*  
4: /cgn2.6/p10data/1/1aa/5A\_COMB.pep:\*  
5: /cgn2.6/p10data/1/1aa/5A\_COMB.pep:\*  
6: /cgn2.6/p10data/1/1aa/5A\_COMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	979.5	42.8	386 4	US-08-875-082-2 Sequence 2, Appl 1
2	789	44.5	427 4	US-08-764-870-11 Sequence 11, Appl 1
3	768	43.6	448 1	US-08-459-489-10 Sequence 10, Appl 1
4	768	43.6	348 1	US-08-458-686-10 Sequence 10, Appl 1
5	768	43.6	348 1	US-07-843-3505-10 Sequence 10, Appl 1
6	629	27.5	467 1	US-07-737-736B-4 Sequence 4, Appl 1
7	498	21.8	461 1	US-08-430-518-2 Sequence 2, Appl 1
8	498	21.8	461 1	US-08-430-518-2 Sequence 2, Appl 1
9	498	21.8	461 1	US-08-430-518-2 Sequence 2, Appl 1
10	498	21.8	461 5	PCT-US95-13924-2 Sequence 2, Appl 1
11	498	21.8	461 5	PCT-US95-13924-2 Sequence 2, Appl 1
12	498	21.8	461 5	PCT-US95-13924-2 Sequence 2, Appl 1
13	498	21.8	461 5	PCT-US95-13924-2 Sequence 2, Appl 1
14	498	21.8	461 5	PCT-US95-13924-2 Sequence 2, Appl 1
15	498	21.8	461 5	PCT-US95-13924-2 Sequence 2, Appl 1
16	498	21.8	461 5	PCT-US95-13924-2 Sequence 2, Appl 1
17	498	21.8	461 5	PCT-US95-13924-2 Sequence 2, Appl 1
18	498	21.8	461 5	PCT-US95-13924-2 Sequence 2, Appl 1
19	498	21.8	461 5	PCT-US95-13924-2 Sequence 2, Appl 1
20	498	21.8	461 5	PCT-US95-13924-2 Sequence 2, Appl 1
21	498	21.8	461 5	PCT-US95-13924-2 Sequence 2, Appl 1
22	498	21.8	461 5	PCT-US95-13924-2 Sequence 2, Appl 1
23	498	21.8	461 5	PCT-US95-13924-2 Sequence 2, Appl 1
24	498	21.8	461 5	PCT-US95-13924-2 Sequence 2, Appl 1
25	498	21.8	461 5	PCT-US95-13924-2 Sequence 2, Appl 1
26	498	21.8	461 5	PCT-US95-13924-2 Sequence 2, Appl 1
27	498	21.8	461 5	PCT-US95-13924-2 Sequence 2, Appl 1

28	447	19.5	674 4	US-08-653-648A-14 Sequence 14, Appl 1
29	445	19.4	461 4	US-08-764-870-11 Sequence 11, Appl 1
30	445	19.4	461 4	US-08-980-115-3 Sequence 3, Appl 1
31	444.5	19.4	451 2	US-08-372-652-2 Sequence 2, Appl 1
32	444.5	19.4	451 2	US-08-372-652-2 Sequence 2, Appl 1
33	444.5	19.4	451 2	US-08-372-652-2 Sequence 2, Appl 1
34	444.5	19.4	451 2	US-08-372-652-2 Sequence 2, Appl 1
35	444.5	19.4	451 2	US-08-372-652-2 Sequence 2, Appl 1
36	444.5	19.4	451 2	US-08-372-652-2 Sequence 2, Appl 1
37	444.5	19.4	451 2	US-08-372-652-2 Sequence 2, Appl 1
38	444.5	19.4	451 2	US-08-372-652-2 Sequence 2, Appl 1
39	444.5	19.4	451 2	US-08-372-652-2 Sequence 2, Appl 1
40	444.5	19.4	451 2	US-08-372-652-2 Sequence 2, Appl 1
41	444.5	19.4	451 2	US-08-372-652-2 Sequence 2, Appl 1
42	444.5	19.4	451 2	US-08-372-652-2 Sequence 2, Appl 1
43	444.5	19.4	451 2	US-08-372-652-2 Sequence 2, Appl 1
44	444.5	19.4	451 2	US-08-372-652-2 Sequence 2, Appl 1
45	444.5	19.4	451 2	US-08-372-652-2 Sequence 2, Appl 1

## ALIGNMENTS

RESULT 1  
US-08-875-082-2  
Sequence 2, Application US/08875082  
Patent No. 6391847  
GENERAL INFORMATION:  
APPLICANT: Evans, Ronald M.  
APPLICANT: Blumfeld, Bruce  
TITLE OF INVENTION: A NOVEL RXR-DEPENDENT SIGNALING PATHWAY  
TITLE OF INVENTION: AND 11 CANIS USPTL THEREFOR  
NUMBER OF SEQUENCES: 3  
ADDRESS/INVENTOR ADDRESS:  
STREET: 4365 Executive Dr, Suite 1000  
CITY: San Diego  
STATE: CA  
COUNTRY: USA  
ZIP: 92121  
COMPUTER REAMABLE FORM:  
MEDIUM TYPE: floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/875,082  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/474,445  
FILING DATE: 17 JAN 1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Kelly, Stephen E.  
REGISTRATION NUMBER: 34,192  
REFERENCE/DOCKET NUMBER: P41 9887  
TELEPHONE: 619-677-1409  
TELEPHONE: 619-677-1409  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 486 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-875-082-2  
Query Match: 42.8%; Score 979.5; DB 4: Length 386;  
Best local Similarity: 48.6%; Pred. No. 1.1e-88;  
Matches 202; Conservative: 60; Mismatch: 105; Indels: 44; Gaps: 9;









```

US-08-340-518-2
: Sequence 2, Application US/0830518
: Patent No. 5607967
:
: GENERAL INFORMATION:
: APPLICANT: Friedman, Eitan
: APPLICANT: Holloway, M. Katharine
: APPLICANT: Rodan, Gideon
: APPLICANT: Schmidt, Azriel
: APPLICANT: Vogel, Robert
: TITLE OF INVENTION: USE OF RECEPTOR POTENTIATORS
: NUMBER OF SEQUENCES: 5
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Merck & Co., Inc.
: STREET: 126 East Lincoln Avenue
: CITY: Rahway
: STATE: New Jersey
: COUNTRY: US
: ZIP: 07065-0907
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/330,518
: FILING DATE:
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Dolan, Catherine A.
: REGISTRATION NUMBER: 36,502
: REFERENCE/DOCKET NUMBER: 19316
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (908) 594-4283
: TELEFAX: (908) 594-4720
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 461 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: HYDROTHERMAL: NO
: ANTI-SENSE: NO
: US-08-340-518-2
:
: Query Match: 21.8%; Score 498; DB 1; Length 461;
: Best Local Similarity 29.0%; Pred. No. 6,4e-41;
: Matches 126; Conservative 86; Mismatches 125; Indels 98; Gaps 14;
:
QY 37 GUGUGVCGDKAGHYHFWMGCEGCKGFRKAMKNAHLCRQFR-KGAGELTRKTRQY 95
DB 43 GHEICRVCGDKAGHYHFWNLSCGKGFRRKSVKGRARVACRGTCOMAFMRKQY 142
QY 96 ATRLRKLESKKKKKIMSDFAVEERKALIKRKSERIGY--PLGVVG 142
DB 143 GRLKPKTFAKMRQGVLSHEDLRKK--TRKQOQDSQSOSGVVGVGSSSSASGCA 200
QY 143 -----LLEFQRMRLMDAQMTPTDTSSEKNEKPLGVSSGTE 183
DB 201 SNGSEASGSGSGEBSVDTAAQELMTQULVAQJLQCNKRSES----- 244
QY 184 LPESTGASPRRAKWSVVRKLTSLKVSQJLRJGNSVWVKKPPANSCKKTESSLTHM 243
DB 245 -----DQKPTFWP-----IGAD-----PQSRARQGRFA--HE 271
QY 244 AUMSTMEKGLISPAKVISYFMDLPEDQSLIKGAPELQLRPNTVNAEGTMEW--K 301
DB 272 TELATISVGLVETVAKQVAGTGLGREGQJALLKASTTEHMLLETARKNHET--EC 328
QY 302 --GRLSYGLD--TACGPOOLLEPLMKLFYMLKRLQULHEEYVLMQALSTSPDRGV 458
DB 329 FLKPDYSGKDDHRAGLQVEETINPTEFSSAMRRLTLDPAFVALLALQVPSADRI 488

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QY 359 HRVVDLOPQFALTKSYIDENPPQPAHRELEKIMAMTEIRSNQHTQRL--LR 414
DB 389 PGREVALQGYVVEALLSTRIKRYDQDL--FPRLMKIVSLKLSVSHSVYALRQD 446
QY 417 TRPATIPQHLKQI 431
DB 447 --KKPLSLSEIMQV 459
:
: RESULT 8
: US-08-340-283-2
: Sequence 2, Application US/08340283
: Patent No. 5679518
:
: GENERAL INFORMATION:
: APPLICANT: Friedman, Eitan
: APPLICANT: Holloway, M. Katharine
: APPLICANT: Rodan, Gideon
: APPLICANT: Rodan, Gideon
: APPLICANT: Rodan, Gideon
: APPLICANT: Schmidt, Azriel
: APPLICANT: Vogel, Robert
: TITLE OF INVENTION: METHOD FOR FINDING RECEPTOR POTENTIATORS
: NUMBER OF SEQUENCES: 5
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Merck & Co., Inc.
: STREET: 126 East Lincoln Avenue
: CITY: Rahway
: STATE: New Jersey
: COUNTRY: US
: ZIP: 07065-0907
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/340,283
: FILING DATE:
: CLASSIFICATION:
: ATTORNEY/AGENT INFORMATION:
: NAME: Dolan, Catherine A.
: REGISTRATION NUMBER: 36,502
: REFERENCE/DOCKET NUMBER: 19327
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (908) 594-4283
: TELEFAX: (908) 594-4720
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 461 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: HYDROTHERMAL: NO
: ANTI-SENSE: NO
: US-08-340-283-2
:
: Query Match: 21.8%; Score 498; DB 1; Length 461;
: Best Local Similarity 29.0%; Pred. No. 6,4e-41;
: Matches 126; Conservative 86; Mismatches 125; Indels 98; Gaps 14;
:
QY 37 GUGUGVCGDKAGHYHFWMGCEGCKGFRKAMKNAHLCRQFR-KGAGELTRKTRQY 95
DB 43 GHEICRVCGDKAGHYHFWNLSCGKGFRRKSVKGRARVACRGTCOMAFMRKQY 142
QY 96 ATRLRKLESKKKKKIMSDFAVEERKALIKRKSERIGY--PLGVVG 142
DB 143 GRLKPKTFAKMRQGVLSHEDLRKK--TRKQOQDSQSOSGVVGVGSSSSASGCA 200
QY 143 -----LLEFQRMRLMDAQMTPTDTSSEKNEKPLGVSSGTE 183
DB 201 SNGSEASGSGSGEBSVDTAAQELMTQULVAQJLQCNKRSES----- 244
QY 184 LPESTGASPRRAKWSVVRKLTSLKVSQJLRJGNSVWVKKPPANSCKKTESSLTHM 243

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STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
PCT-US95-13924-2

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Query Match	21.8%	Score 498	DB 5	Length 461
Best local Similarity	29.0%	Prod. No. 6.4e-41		
Matches	126	Conservative	86	Mismatches 125
				Indels 98
				Gaps 14

QY	37	GOBIRWVGOVNAIOLHEFVNMIGEGKQFFRRKRNARIRGPRKGAETTRKTRBOOQ	9
Dh	83	GHETIRVWGKASQSPHNVNLSCGCKQGFRRSVYGGARRACGGGTCQMDARRKQO	14
QY	96	ACRIARKTLESMKRMKPMISNPVAFERRALLTKRKSEGTGYO---PIGVGOO-----	143
Dh	143	OCRIARKKEAKQKQCVLSEFQTKRRK---IKKOOOVSQSOSSQSPVQPOGSSSSASQNGA	200
QY	143	-----LFEGBRMIRBLMDQMKTFDTTFESHKKNRFLNVLNAGDE	18
Dh	201	SPGSSPAGSOQSQSGEIRYQIILAKPILMIOGLVANOIQCNKRSES-----	244
QY	184	LPELSQAPSRPEAAKWSQVRKQICSLAVSTQIKREHNSVWYKIPADQCKEITPILPIM	244
Dh	245	-----DQPKVTIPW-----LEAD-----PQSKDARQDRA---HF	271
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Dh	272	TELALISVQELVDPKQVOGFIQJQREDOIALKASTLEIMLETPARRYNET---EVII	328
QY	302	---GRLSYCLEP---TAGGFQULLLEPMIKFHYMKIKLQIHEFEYVIMQASLESPRPQVQ	358
Dh	329	FLKQPTYSKQDPIHAGQOVEFINTLEFSRMRRIQGLDADATYALLAININTSARIPVQO	488
QY	359	HRVVVQLODEQAFITKSYTECNRPQPAHREIPLKIMVLELKSINAOFTQRI---LKIQD	416
Dh	389	POKVEALDOQPVVEALISYTRIKPQDQIR---FPRMLKVLVETLSSVSHQVAFLEQD	447
QY	417	IHPATPIMQELPQI	431
Dh	447	---KKIPRLSELIMOV	459

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1 RESULT 11
2 PCT-US95-13941-2
3
4 : Sequence 2, Application PCT/US9513941
5 : GENERAL INFORMATION:
6 : APPLICANT: Friedman, Eitan
7 : APPLICANT: Holloway, M. Katharine
8 : APPLICANT: Rodan, Gidon
9 : APPLICANT: Schmidt, Ariel
10 : TITLE OF INVENTION: USE OF RECEPTOR POTENTIALATORS
11 : NUMBER OF SEQUENCES: 5
12 : CORRESPONDENCE ADDRESS:
13 : ADDRESSEE: Merck & Co., Inc.
14 : STREET: 126 East Lincoln Avenue
15 : CITY: Rahway
16 : STATE: New Jersey
17 : COUNTRY: US
18 : ZIP: 07065-0907
19 : COMPUTER READABLE FORM:
20 : MEDIUM TYPE: Floppy disk
21 : COMPUTER: IBM PC compatible
22 : OPERATING SYSTEM: PC-DOS/MS-DOS
23 : SOFTWARE: Patent In-Liase #1.0, Version #1.25
24 : CURRENT APPLICATION DATA:
25 : APPLICATION NUMBER: PCT/US95/13941
26 : FILING DATE:
27 : CLASSIFICATION:
28 : ATTORNEY/AGENT INFORMATION:
29 : NAME: Qualidate, Carol S.

```

```

1  REGISTRATION NUMBER: 35, 340
2  REFERENCE/JACKET NUMBER: 1916 Pct
3  TELECOMMUNICATION INFORMATION:
4  TELEPHONE: (908) 594 3409
5  TELEFAX: (908) 594-4720
6  INFORMATION FOR SEQ ID NO: 2:
7  SEQUENCE CHARACTERISTICS:
8  LENGTH: 461 amino acids
9  TYPE: amino acid
10 STRANDEDNESS: single
11 TOPOLOGY: linear
12 MOLECULE TYPE: peptide
13 HYPOTHEetical: NO
14 ANTI-SENSE: NO
15 PCT-0596-13941-2

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Query Match 21.8%; Score 498; DR 5; Length 461;  
Best local Similarity 29.0%; Pred. No. 6,40-91;  
Matches 126; Conservative 86; Mismatches 125; Indels 98; Gaps 14.

[illegible]

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1 RESULT 1 2 411A 2
2 US-08-342-411A 2
3 Sequence 2, Applicant US/0844211A
4 Patient No. 568616
5
6 GENERAL INFORMATION:
7
8 APPLICANT: LIAO, Shuhsung
9
10 TITLE OF INVENTION: UNUSUAL NEURAL RECEPTOR
11 TITLE OF INVENTION: COMPOSITIONS AND METHODS
12
13 NUMBER OF SEQUENCES: 48
14
15 CORRESPONDENCE ADDRESS:
16 ADDRESSEE: Arnold, White & Durkee
17 STREET: P.O. Box 4413
18 CITY: Houston
19 STATE: TX
20
21 COUNTRY: USA
22 ZIP: 77210 4414
23
24 COMPUTER RELEVABLE FORM:
25 MEDIUM TYPE: Floppy disk
26 COMPUTER: IBM pc compatible

```



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Patent No. 5696233
GENERAL INFORMATION:
APPLICANT: EVANS Ph.D., RONALD M.
APPLICANT: MANGELSDORF Ph.D., DAVID J.
APPLICANT: ONG Ms., ESTELITA S.
APPLICANT: ONG Ph.D., ANTHONY E.
APPLICANT: HORGMEYER Ph.D., DME K.
APPLICANT: GIGHERE Ph.D., VINCENT NMN
APPLICANT: YAO Mr., TSO-PANG NMN
TITLE OF INVENTION: NOVEL RECEPTORS
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark
STREET: 444 So. Flower St., Suite 2000
CITY: Los Angeles
STATE: CA
COUNTRY: US
ZIP: 90071-2921
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/463,694
FILING DATE: 05-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/761,068
FILING DATE: 17-SEP-1991
ATTORNEY/AGENT INFORMATION:
NAME: Reiter Ph.D., Stephen E.
REGISTRATION NUMBER: 31192
REFERENCE/DOCKET NUMBER: F31 8936
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9301
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 440 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-463-694-8

Query Match
Best local similarity 21.5%; Score 491.5; DB 1; Length 440;
Matches 127; Conservative 85; Mismatches 145; Indels 71; Gaps 12;

DB 18 EETESVPEKPSVNADEVGQVUTKRVGDKATGVHENVMTCEGCKGFFRKAKKNAHLEQ 77
68 EETELRQPKRRKKQAPKMLNENLNVGAKASGHYVNLSTEGCKGFFRKSVIKAHYD 127
78 PEKKAQCHETKTRKQVACRLKQLESQMKKEMIMDEAVERRALIKRKSE 131
128 -HSGHCHPMQYMRKKQVRLKRCQAGMRHEVLSFEQIRLKK-LKQFFEDAHATS 184
132 ---KGTGTPLVGGLTEDEQKMMIRFLMAQMKTEDTTSHRKNIRLQVLSNGTLPSTL 188
185 LPPRSSPQIIPQISPOLQMIETLVAADQDCNRKRS----- 224
189 GAPSEEFKAKSQQVKRQDLSIKVSLQRLGDSVWNYKPPADSGKELFSLIPHAMDSI 248
224 ---DRLKATPMDMAD-----DPSHREARQDFA--HFTTAL 255
249 YMEKTIISFANVSYFRDLPTEQDLSLKGAFELAQRFNIVN-AFTGIMEGRTSY 306
256 VSVQGVIVFAQQLTGTLSTREHQALLKTSATLEVMLETSRBRVNGSESITF-LKQPSY 314
407 CLHPTA-GGFQGLLEPMLKTHYMKKTKQIHFEVYLMQALISLSPQVYGLQHVQGL 365
415 NKEDFAKGLQVEPTNLPFEPSRANPLQLNADFEFALLAISLPSADRPVQDQQLVVERL 374

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366 GEOFALITKSYICNHNQPAHRLPLKIMALKTEKSTINQHTQRL-LHQLTIFPAP 425
475 QHTVEMAHVSVSTHBP-DRLMPPMLKIKVSLTSSVSEVAFALQD--KKLD 430
424 LMELEGT 431
431 LKSTMDV 438

RESULT 15
US-08-694-501-8
Sequence 8; Application US/08694501
Patent No. 5710004
GENERAL INFORMATION:
APPLICANT: EVANS Ph.D., RONALD M.
APPLICANT: MANGELSDORF Ph.D., DAVID J.
APPLICANT: ONG Ms., ESTELITA S.
APPLICANT: ONG Ph.D., ANTHONY E.
APPLICANT: HORGMEYER Ph.D., DME K.
APPLICANT: GIGHERE Ph.D., VINCENT NMN
APPLICANT: YAO Mr., TSO-PANG NMN
TITLE OF INVENTION: NOVEL RECEPTORS
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark
STREET: 444 So. Flower St., Suite 2000
CITY: Los Angeles
STATE: CA
COUNTRY: US
ZIP: 90071-2921
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/694,501
FILING DATE: 07-AUG-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/334,358
FILING DATE:
APPLICATION NUMBER: US/07/761,068
ATTORNEY/AGENT INFORMATION:
NAME: Reiter Ph.D., Stephen E.
REGISTRATION NUMBER: 31192
REFERENCE/DOCKET NUMBER: F31 8936
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9301
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 440 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-694-501-8

Query Match
Best local similarity 21.5%; Score 491.5; DB 1; Length 440;
Matches 127; Conservative 85; Mismatches 145; Indels 71; Gaps 12;

DB 18 EETESVPEKPSVNADEVGQVUTKRVGDKATGVHENVMTCEGCKGFFRKAKKNAHLEQ 77
68 EETELRQPKRRKKQAPKMLNENLNVGAKASGHYVNLSTEGCKGFFRKSVIKAHYD 127
78 PEKKAQCHETKTRKQVACRLKQLESQMKKEMIMDEAVERRALIKRKSE 131
128 -HSGHCHPMQYMRKKQVRLKRCQAGMRHEVLSFEQIRLKK-LKQFFEDAHATS 184
132 ---KGTGTPLVGGLTEDEQKMMIRFLMAQMKTEDTTSHRKNIRLQVLSNGTLPSTL 188
185 LPPRSSPQIIPQISPOLQMIETLVAADQDCNRKRS----- 224
189 GAPSEEFKAKSQQVKRQDLSIKVSLQRLGDSVWNYKPPADSGKELFSLIPHAMDSI 248
224 ---DRLKATPMDMAD-----DPSHREARQDFA--HFTTAL 255
249 YMEKTIISFANVSYFRDLPTEQDLSLKGAFELAQRFNIVN-AFTGIMEGRTSY 306
256 VSVQGVIVFAQQLTGTLSTREHQALLKTSATLEVMLETSRBRVNGSESITF-LKQPSY 314
407 CLHPTA-GGFQGLLEPMLKTHYMKKTKQIHFEVYLMQALISLSPQVYGLQHVQGL 365
415 NKEDFAKGLQVEPTNLPFEPSRANPLQLNADFEFALLAISLPSADRPVQDQQLVVERL 374

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Best Local Similarity 29.18; Pred. No. 3,80-40;  
Matches 125; Conservative 84; Mismatches 128; Indels 92; Gaps 14;

```

QY 47 GQDTFVGVGKATGVYHNVMTTQCKPFRKAMKRNMLKPTFR-KGCEITRTKTRQCV 95
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 74 GHELRKVGQDASGFHNVLSSTQCKPFRKSVHAGRYAKGSGTQGMATMRKQCV 133
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 96 AGRLLKCLFESMKRKMINSDEAVERRALTKRKSR-----IGTGP 137
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 134 LGRLLKCKEAGMRQCVLSFQIKRR--LQKQVQVQPPPSSEPAASSSGHPAASSTSE 191
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 148 LAYQV-----LTFQRMMRLRLMDQMKPTFTFSHKRFRPLPVLSNGLPESLQ 189
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 192 ASSQSGSGEGEQLTAAQELMLQGLVAQGLQCNKRSES----- 229
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 190 APSREPAKRWQVAKKQGLKVSIGLGRPRSVWNYKPPNASKKELFSLTPHMAKSTY 243
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 240 --DQKVTWP-----LQAD-----PQSDAKQDRA--HETLAL 262
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 250 MEKGLTSFAKVISYPRDLPTEQTSLLKGAPELQGLRNVFNATGTWET--GRLS 305
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 263 SVQELVDFPAKQVDFLOLQGREQJALLKASTLEIMLQJARKYHET--EITFLKQPT 319
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 306 YCLEP-TAGDQVQLLEMLKPFHYMKIKIQLHEEYVLMQATSLSPDRPVYLQHRVYQ 364
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 320 YSKDQFHAGQVDFINLTFFSRAMRRLGLDPAVALIATINFSADRPVQHSRYEA 379
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 365 LQGFALTKSYTEGNNQVPAHRELEKIMAMTEKSTINAGHQR--LRIGDIHPAY 422
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 380 LQDPYVEALISTYIKRQVQDLR--FPRMLKIVSLRTLSVSHQVVALRQD--KKLP 435
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 423 PLMOELPFI 431
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 446 PLLSRLWIV 444

```

RESULT 18  
PCT-US95-16311 3  
Sequence 3, Application PCT/US95/16311  
GENERAL INFORMATION:  
APPLICANT: Moore, David  
APPLICANT: Stool, Wong  
APPLICANT: Choi, Hwang-sik  
TITLE OF INVENTION: RETINOID X RECEPTOR-INTERACTING  
TITLE OF INVENTION: POLYPEPTIDES AND RELATED MOLECULES AND METHODS  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson P.C.  
STREET: 225 Franklin Street, Suite 3100  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentLd Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/16311  
FILING DATE:  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: 08/472,652  
FILING DATE: 13-JAN 1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Clark, Paul T.  
REGISTRATION NUMBER: 30,162  
REFERENCE/DOCKET NUMBER: 00786/245001  
TELEPHONE: 617/542-5079  
TELEFAX: 617/542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:  
LENGTH: 446 amino acids  
TYPE: amino acid  
STRANDEDNESS: not relevant  
POLARITY: 110000  
MOLECULE TYPE: protein  
PCT-US95-16311-3

Query Match 21.48; Score 490; DB 5; Length 446;  
Best Local Similarity 29.18; Pred. No. 3,80-40;  
Matches 125; Conservative 84; Mismatches 128; Indels 92; Gaps 14;

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QY 47 GQDTFVGVGKATGVYHNVMTTQCKPFRKAMKRNMLKPTFR-KGCEITRTKTRQCV 95
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 74 GHELRKVGQDASGFHNVLSSTQCKPFRKSVHAGRYAKGSGTQGMATMRKQCV 133
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 96 AGRLLKCLFESMKRKMINSDEAVERRALTKRKSR-----IGTGP 137
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 134 LGRLLKCKEAGMRQCVLSFQIKRR--LQKQVQVQPPPSSEPAASSSGHPAASSTSE 191
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 148 LAYQV-----LTFQRMMRLRLMDQMKPTFTFSHKRFRPLPVLSNGLPESLQ 189
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 192 ASSQSGSGEGEQLTAAQELMLQGLVAQGLQCNKRSES----- 229
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 190 APSREPAKRWQVAKKQGLKVSIGLGRPRSVWNYKPPNASKKELFSLTPHMAKSTY 243
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 240 --DQKVTWP-----LQAD-----PQSDAKQDRA--HETLAL 262
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 250 MEKGLTSFAKVISYPRDLPTEQTSLLKGAPELQGLRNVFNATGTWET--GRLS 305
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 263 SVQELVDFPAKQVDFLOLQGREQJALLKASTLEIMLQJARKYHET--EITFLKQPT 319
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 306 YCLEP-TAGDQVQLLEMLKPFHYMKIKIQLHEEYVLMQATSLSPDRPVYLQHRVYQ 364
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 320 YSKDQFHAGQVDFINLTFFSRAMRRLGLDPAVALIATINFSADRPVQHSRYEA 379
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 365 LQGFALTKSYTEGNNQVPAHRELEKIMAMTEKSTINAGHQR--LRIGDIHPAY 422
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 380 LQDPYVEALISTYIKRQVQDLR--FPRMLKIVSLRTLSVSHQVVALRQD--KKLP 435
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 423 PLMOELPFI 431
   | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 446 PLLSRLWIV 444

```

RESULT 19  
US-08-776-844-2  
Sequence 2, Application US/08776844  
Patent No. 6277976  
GENERAL INFORMATION:  
APPLICANT: ENMARK, EVA  
APPLICANT: GUSTAFSSON, JAN  
TITLE OF INVENTION: OR-1 ON ORPHAN RECEPTOR HELPINGING  
TITLE OF INVENTION: TO THE NUCLEAR RECEPTOR FAMILY  
NUMBER OF SEQUENCES: 11  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: HANNOY & WILCOIT  
STREET: 1001 G Street, NW  
CITY: Washington  
STATE: DC  
COUNTRY: USA  
ZIP: 20001  
COMPUTER READABLE FORM:  
MEDIUM TYPE: diskette  
COMPUTER: IBM compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/776,844  
FILING DATE: 24 JUN 1997  
CLASSIFICATION: 536  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: PCT/EP95/03247



CITY: Cambridge  
 STATE: Massachusetts  
 COUNTRY: U.S.A.  
 ZIP: 02140  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: floppy disk  
 COMPUTER: IBM pc compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patonlin Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/496,631  
 FILING DATE:  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Brown, Scott A.  
 REGISTRATION NUMBER: 32,724  
 REFERENCE/DOCKET NUMBER: 615248  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 498-8224  
 TELEFAX: (617) 876-5851  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 472 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-496-631-2

Query Match 20.58; Score 469.5; DB 1; Length 472;  
 Best Local Similarity 28.68; Pred. No. 4,40-38;  
 Matches 129; Conservative 82; Mismatches 137; Indels 103; Gaps 16;

07 12 ADPVEHTE---SYKSPSNADP-EVGGHJCRVCGKATGHPNMTDQKGFPR 66  
 10 93 AELVGGELVAMPVTRKPRPMASAGRIKDELICVCDRASGYHNAITGEG-KGPR 152  
 09 67 RAKMKHARICPRKACETTRKTRQCAQRIKCIKESGKKEMIM----- 113  
 10 153 KSLIKNAVYKCR-NQNCYMDIMYMRKRCQECRIKCKEKMGMAFCLITLTGCKSKRLKN 211  
 09 114 ---SFEAVE-----RRALIRKKKSPRTGPIGVGLTFPHKMMIRKIMDAKRTD 163  
 10 212 VQDAHQVNEDEGRRLKQVLTSTKSKCKE-----LTQGLTLDFIMDSYKQ-- 263  
 09 164 TFSHKKRRLTGVSSGELLESIOAPSRFAAKMSQYKRLGSLKVSJLRIGKLSV 223  
 10 264 -----KMDDELT-----NKILKE----- 276  
 09 224 NKPVPASGKRETFSLPRMAIMSTYMRGILTSFAKVISYKRLPLEQISLKIAVEL 243  
 10 277 -----EFSAGNELLL--TKMATIHVGVIVFTKRLIGPGLTDHEDVALLKSAVFA 427  
 09 284 COLRPNTVNALETGWENYHLSYGLTDAGPQGLLEPMKTFHYMKKIQJHEEYVIM 443  
 10 328 MELKSAELFNKKILPSGSHLEERLHNS--GLSDVEYTFMFSYKSGISGLKMTQEVALL 485  
 09 444 VAIISLSPRPVQVIGHNVVIGVQGFATLKSTYECNRQV-PAHRLPLKIMAMLEKSS 492  
 10 386 TAVVLSIPKQVYIKQREAVKIDELLDVLOKIKRIHQENPDH--FATLIGRELILKI 442  
 09 403 INAOHTQL--RIQDHPATPLMOELGI 431  
 10 443 FNIHNAFMIMSKVND-HKF-TPLLCRLMDV 471

RESULT 22  
 US-08-372-183-2  
 Sequence 2, Application US/08/472183  
 Patent No. 6005086  
 GENERAL INFORMATION:  
 APPLICANT: Evans, Ronald M.  
 APPLICANT: Forman, Barry M.  
 APPLICANT: Weidenberg, Gary A.

TITLE OF INVENTION: METHOD FOR MODULATING PROTEIN MEDIATED  
 TITLE OF INVENTION: BY FARNSOLD ACTIVATED RECEPTORS  
 NUMBER OF SEQUENCES: 7  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Procty, Schroeder, Brundmann & Clark  
 STREET: 444 South Flower Street, Suite 2000  
 CITY: Los Angeles  
 STATE: CA  
 COUNTRY: USA  
 ZIP: 90071  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: floppy disk  
 COMPUTER: IBM pc compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patonlin Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/472,183  
 FILING DATE:  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Koller, Stephen E.  
 REGISTRATION NUMBER: 41,192  
 REFERENCE/DOCKET NUMBER: 141 9844  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 619 546-4747  
 TELEFAX: 619-546-9492  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 469 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-372-183-2

Query Match 19.88; Score 454; DB 3; Length 469;  
 Best Local Similarity 28.98; Pred. No. 1,56-36;  
 Matches 132; Conservative 79; Mismatches 141; Indels 104; Gaps 18;

07 5 PKESSNAHIVGTE---SYKSPSNADP-EVGGHJCRVCGKATGHPNMTDQKGFPR 58  
 10 88 PPS-----VYDDEHSEMVTRKPRPMASAGRIKDELICVCDRASGYHNAITGEG 141  
 09 59 ECKGPRKRNARICPRKACETTRKTRQCAQRIKCIKESGKKEMIMSDQAV 118  
 10 142 ECKGPRKRSILKNVYKCR-NQNCYMDIMYMRKRCQECRIKCKEKMGMAFCLITLTGCKSKRLKN 200  
 09 119 EERKALIRKKKSPRTGPIGVGLTFPHKMMIRKIMDAKRTD 160  
 10 201 KSKR-LRNKQDAHQVNEDEGRRLKQVLTSTKSKCKEIELVQGLTLDFIMDSYKQ 259  
 09 161 TDTTFSHKKRRLTGVSSGELLESIOAPSRFAAKMSQYKRLGSLKVSJLRIGKLSV 260  
 10 260 Q-----KMDDELT-----NKILKE----- 273  
 09 221 SWNKPVPASGKRETFSLPRMAIMSTYMRGILTSFAKVISYKRLPLEQISLKIAVEL 280  
 10 274 -----EFSAGNELLL--TKMATISHVGLIVFTKRLIGPGLTDHEDVALLKSA 421  
 09 281 PRLCOLRPNTVNALETGWENYHLSYGLTDAGPQGLLEPMKTFHYMKKIQJHEE 438  
 10 322 VAMLEKSAELFNKKILDTDTGCKKKE--EVAASIMG--YIIMFSYKSGISGLKMTQEVALL 477  
 09 339 EYVINDAISTSPDRQVQVIGHNVVIGVQGFATLKSTYECNRQV-PAHRLPLKIMAMLEKSS 497  
 10 378 EYVITAVVLSIPKQVYIKQREAVKIDELLDVLOKIKRIHQENPDH--FATLIGREL 434  
 09 398 TELRSINAHTQL--RIQDHPATPLMOELGI 431  
 10 435 TELKTFNIIHNAFMIMSKVND-HKF-TPLLCRLMDV 468

RESULT 24  
 US-09-469-721-2



0Y	221	SWMYKPDAGGCEGCEPSTLPHIMADITYMKGIISAKVISEYRDLPIEIOJLSIKGA	200
1b	274	-----EBSAEDENLIL-----TEKMSIVQDLYETKLPQDTHDQDIALKGA	421
0Y	281	FELQOLRENYENAE--TGTWOTRISYCEJDIAGBQOJLLEPMKFTYMKQJLIEE	438
1b	322	VEAMEFBSAEFFNNKLLPQJOTYKKKE--EBAASPMR--YITPM--SPYKSVHEMKCE	477
0Y	439	KYVLMQALISLSPKRYVLOHVVQVJQDQBPATLAKSYIEG'NRDQ-PAHFELEKIMAM	477
1b	478	FYALITIVILSPROYIKQBEAAVEKJQDREPLVJQKCTKYQFENDQH--FACILAGRL	484
0Y	398	FEKSLINAGHQRKL--KQJQJNEGATPEMOJLPGI	431
1b	435	FELTFNNHABKMSKVVNDHFE--PLICEJNDV	468

```

RESULT 25
PCT-US95-17023-2
Sequence 2: Application WO/199617023
GENERAL INFORMATION:
APPLICANT: Evans, Ronald M.
APPLICANT: Forman, Barry M.
APPLICANT: Weidner, Cary A.
TITLE OF INVENTION: METHOD FOR MODULATING PROCESSES MEDIATED
TITLE OF INVENTION: BY PARNESOL ACTIVATED RECEPTORS
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESS: Priddy, Schroeder, Brueggemann & Clark
STREET: 444 South Flower Street, Suite 2000
CITY: Los Angeles
STATE: CA
COUNTRY: USA
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/17023
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Reiter, Stephen E.
REGISTRATION NUMBER: 41,192
REFERENCE/Docket NUMBER: P41 9844
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-546-4747
TELEFAX: 619-546-9492
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 469 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US95-17023-2

Query Match          19.8%; Score 454; DB 5; Length 469;
Best Local Similarity 28.9%; Pred. No. 1,5e+36;
Matches 132; Conservative 79; Mismatches 141; Indels 104; Gaps 18;

5 PRESNNHMFVIGCEFE---SYGQKPSYNADE--EVGGPQLCRGVCGAKATYHENVMTC 58
      |||         | :|||         | :|||         | :|||         | :||
DB   88 PLES-----YQGELFYSFMVPTRKPRAASSAGRIKGDELFCVVGGDASNYHNALTY 141
      |||         | :|||         | :|||         | :|||         | :||

59 EGCGCFPRFRAMRNARLCKPFRRACETLTRTRTQCAGCLRKCSDSKRMKSIMSEAV 118
      ||||||| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :||
DB   142 EGCGCFPRRSILKNAYVKCK--NGCMYMDMYMRKRCCGLRLKRCDEMMLAEITLTICG 200
      |||         | :|||         | :|||         | :|||         | :||

59 EHRRALLTKRKKEKRTCTQLPLVVG-----LTEDQRMMIHELMDQMK 160
      :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :||
DB   201 KSRK-LIKSNVKKHALQIVNEDSEGRKH QOVSTFKCREKTLTVNQDTLLDIYIMDSVRK 259

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0Y	101	1EDTFSHFKNEFDVNSACEELFHSLSQASBFEAKMSVDKRO/SLIKVSI QJ KGH/1	2.25
1b	260	Q-----KMPGHT-----	2.73
0Y	221	SWMYKPAVDSQREFTSLIHMADMSYMKGLISAKVLSYKQD/LEQJSLIKZAA	2800
1b	274	-----EFSAEFNNLL-----TBMATSHVUUTLEP/KRLEQD/LEHGCJALIKZSA	3421
0Y	281	FELD/OLMPENTENAF-----TGTEWGRUSYCELDIA/SGQUL/LEDM/KZYMKRKLQ/HEE	3488
1b	322	VEAMT/RSKAEFTPKKLLD/PLUTCKKEE-----EKAAS/PMK-----YLLPMSEFYSYSLP/LEKLOE	4777
0Y	339	FVYLMQATISLSPKPV/LOHVVYQD/DOBPATILKSY/LE/NKQ/PAHHEFT/KIMAM/	3977
1b	478	FYALITAVILISPEBOY/KRQEAVERKIO/LEPLDYLQIK/LEUYETENQ/-----FAN/LEHBL	4444
0Y	498	FEIKSLNKHQ/LEI/LE-KIO/LEHFAAT/LEMO/LEH/	441
1b	445	LEKLEFNNHMDMSKVVN/HEF-LELD/LEH/VA/446	

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RESULT 26
US-08 /72-652-1
Sequence 19; Application US/08/72652
Patent No.: 5932639
GENERAL INFORMATION:
APPLICANT: Moore, David
APPLICANT: Scott, Walter
APPLICANT: Choi, Ingon-Sik
TITLE OF INVENTION: RETINOID X RECEPTOR INTERACTING
TITLE OF INVENTION: POLYPEPTIDES AND RELATED MOLECULES AND METHODS
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.,
STREET: 225 Franklin Street, Suite 4100
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.40
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/772,652
FILING DATE: 13-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Clark, Paul T.
REGISTRATION NUMBER: 40,162
REFERENCE/PACKET NUMBER: 00786/246001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 484 amino acids
TYPE: amino acid
STRANDINESS: not relevant
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-372-652-1
Query Match      19-78; Score 451.5; 100%; Length 484;
Best Local Similarity    28-08; Pred. No. 280 v6;
Matches 122; Conservative   78; Mismatches 140; Indels   95; Gaps 14.
QY      23 VGRGSVNDDE-FVAGGICVCCEKATGYHFNWMTDSECKEPRKKRRNARLCTFR 80
I H : I : L : L : L : L : L : L : L : L : L : L : L : L : L : L :
DB     118 VKRKPKRAASAGRIRKGDELVVCCDRRSGYHNALILEGG KGFPRKSILKNAYTKK N 176

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[illegible]

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UY 62 KGFRRAMRNARLCPERKGA-FITRKIRGCGA-FLKLTESGKKMKMISDEAVEIR 121
| | | | | : | | | | | : | | | | | : | | | | | : | |
DB 211 KGFRRKSTKRNAYCCGRKH-ACEDMTRKRCQCRKLKTLAVMRPECV-----VFEN 264
UY 122 RALIRKRSKSRGTOTPLAVGUTFEQRMIRFELMDQMKETDTFSHKRFLPGLVSSG 181
| | | | | : | | | | | : | | | | | : | | | | | : | |
DB 265 QCAIKRERK-----KAKERKQVOTN-----ATVSTNSTYSRSLPTLMK-- 305
UY 182 GLPPLSLQAP-SREFAKRSVKRKLCSIKVSLQJRGESKSVW---NKPANSGGKELF 237
| | | | | : | | | | | : | | | | | : | | | | | : | |
DB 306 GPPPHQALPLLEKILLENRLN--FPLITANQNAVLYKLIMYQDQEGQPSSEHKLIR 463
UY 238 SLIP-----HMDMSTYMKGIISPAKVISYERDPLFQIQTSLKGAAPFLCQ 285
| | | | | : | | | | | : | | | | | : | | | | | : | |
DB 364 IQSPNEEDQVHVRHTEITLITVQLIVERAKGILPATKIPQEQITLTKANSKPYWM 423
UY 286 LRFNIVFNAETQ-WEQCHLSYGLFDTAGGFGQULLFPLKPHYMLKRLQHEEYVIMQ 344
| | | | | : | | | | | : | | | | | : | | | | | : | |
DB 424 LHMARVYVATQSLIFANNRSYLRDYSRMA-CAWDTEDLHLRQKMSLIVNHYALLT 483
UY 345 AISTSPDRGCVQIRVAVQIDQFAITLKSYTEKPK--PQFAHRTPLKIMAMJELRS 402
| | | | | : | | | | | : | | | | | : | | | | | : | |
DB 484 AIVITFS DRPGLQAVLYEHSYVYIOTIKRYI-LNRHMDPKNSVLPKALSLITLEAI 543
UY 403 INAOHTQ-----KLR---LQDHP 419
| | | | | : | | | | | : | | | | | : | | | | | : | |
DB 542 LGNNSMCPSTKIKRKLPLLEHIMVQDILP 575

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## RESULT 29

US-08-764-870-3

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? Sequence 3, Application US/08764870
? Patent No. 6266946

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? GENERAL INFORMATION:
? APPLICANT: Scandian, Thomas S
? APPLICANT: Baxter, John D
? APPLICANT: Electorick, Robert J
? APPLICANT: Wagner, Richard L
? APPLICANT: Kushner, Peter J
? APPLICANT: Apfelfelt, James W
? TITLE OF INVENTION: Nuclear Receptor Ligands and Ligand
? TITLE OF INVENTION: Binding Domains
? NUMBER OF SEQUENCES: 16
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Cooley Godward
? STREET: Five Palo Alto Square, 3000 El Camino Real
? CITY: Palo Alto
? STATE: CA
? COUNTRY: USA
? ZIP: 94106
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: pc dos/MS-DOS
? SOFTWARE: Patent Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/764,870
? FILING DATE: 18-DEC-1996
? CLASSIFICATION: 530
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 60/008,540
? FILING DATE: 13-DEC-1995
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 60/008,543
? FILING DATE: 18-DEC-1995
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 60/008,506
? FILING DATE: 13-DEC-1995
? ATTORNEY/AGENT INFORMATION:
? NAME: Nakamura, Jackle N
? REGISTRATION NUMBER: 35,966

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? REFERENCE/DB KEY NUMBER: 57AL-246/0105
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (650) 944-5000
? INFORMATION FOR SEQ ID NO: 3:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 461 amino acids
? TYPE: amino acid
? STRANDEDNESS:
? TOPOLOGY: linear
? MOLECULE TYPE: protein
? US-08 764-870-3

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Query Match 19.4% Score 445; DB 4; Length 461;
Best Local Similarity 29.4%; Pred. No. 1,1e-35;
Matches 119; Conservative 67; Mismatches 15; Indels 64; Gaps 13;

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UY 69 QICRVCGRKATQYHENVTCCKGKGFRRAMRNAR-LRPERRGA-FITRKIRGCV 96
| | | | | : | | | | | : | | | | | : | | | | | : | |
DB 105 ELQVVGGRKATQYHRCITTCCKGKGFRRITOKNIHNSYCKY ECKVITKVRNQCQE 163
UY 97 CRIRKLTESKRRKQIMSDAVEVERBALIRKKRSR-----TQIPLAVQNLFEQR 148
| | | | | : | | | | | : | | | | | : | | | | | : | |
DB 164 GRRKRTVYGATQVLDVDSKRLAKRKLLENPKRRRRRLQKSGKRP--ETIDHEW 219
UY 149 KMIRFELMDQMKETDTIIFSHKNEFLPGVLSNGGTELESLQVATSRFAKWSVPRKID 267
| | | | | : | | | | | : | | | | | : | | | | | : | |
DB 220 ELKRTVLAHVAILNAQDSIRK--QKRP---LHEDIDGAP----- 254
UY 208 SIKVSLQIRGDSQSWNRYKRYANSGKELFSLIPPMKMSYMKKGIISPAKVISYERD 267
| | | | | : | | | | | : | | | | | : | | | | | : | |
DB 265 -- -- --LVN--AFEGKVDLFAFSHLEKILIALRVIVAKKILMPDEI 296
UY 268 PLEQVISTLKGAAPFLCQIRIVFNATGIMWPGKISTYLEDGAGGGLLEPMK 326
| | | | | : | | | | | : | | | | | : | | | | | : | |
DB 297 PLEQVISTLKGAAPFLCQIRIVFNATGIMWPGKISTYLEDGAGGGLLEPMK 326
| | | | | : | | | | | : | | | | | : | | | | | : | |
UY 327 HYMLKRLDHEEYVIMQASLFSPPDRGVQIRVAVQIDQFAITLKSYTEKPKQVAB 486
| | | | | : | | | | | : | | | | | : | | | | | : | |
DB 367 QMSLSPFNLDLEVALQAVILMSDQKGLAVHEIRFVYQISPLAPRHYINRYKHHYTH 419
UY 487 RFLKIRAMJELRSINAOHTQIRLQDHP--FAIIMQELP 429
| | | | | : | | | | | : | | | | | : | | | | | : | |
DB 417 --FWKILMKVTDILRMIGACHSRFLMKVETVLELPLELQV 459

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## RESULT 40

US-08-980 115-3

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? Sequence 3, Application US/08980115
? Patent No. 6266622

```

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? GENERAL INFORMATION:
? APPLICANT: Scandian, Thomas S
? APPLICANT: Baxter, John D
? APPLICANT: Electorick, Robert J
? APPLICANT: Wagner, Richard L
? APPLICANT: Kushner, Peter J
? APPLICANT: Apfelfelt, James W
? APPLICANT: West, Brian L
? TITLE OF INVENTION: NUCLEAR RECEPTOR LIGANDS AND LIGAND BINDING DOMAINS
? TITLE OF INVENTION: NUCLEAR RECEPTOR LIGANDS AND LIGAND BINDING DOMAINS
? FILE REFERENCE DATA: 07AL-246/0205
? CURRENT APPLICATION NUMBER: US/08/980,115
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/764,870
? FILING DATE: 1995-12-13
? EARLIER APPLICATION NUMBER: 60/008,606
? EARLIER FILING DATE: 1995-12-14
? EARLIER APPLICATION NUMBER: 60/008,543
? EARLIER FILING DATE: 1995-12-13
? EARLIER APPLICATION NUMBER: 60/008,540
? EARLIER FILING DATE: 1995-12-13
? NUMBER OF SEQ ID NOS: 17
? SOFTWARE: Patent to Ver. 2.0
? SEQ ID NO 3

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FILING DATE:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/372,652  
 FILING DATE: 13-JAN-1995  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Clark, Paul T.  
 REGISTRATION NUMBER: 30,162  
 REFERENCE/DOCKET NUMBER: 00786/246001  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 617/542-5070  
 TELEFAX: 617/542-8906  
 TELEX: 200154  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 451 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: not relevant  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 PRT-0595-16311-2

Query Match 19.48; Score 444.5; DB 5; Length 451;  
 Best Local Similarity 28.38; Pred. No. 1,2e-35;  
 Matches 125; Conservative 74; Mismatches 138; Indels 105; Gaps 15;

QY 23 VGRKPSVNDK--EYGGPQICVCGSDKATGYHENVTCGCGKGFPRAKKNAARLRQPR 80  
 DB 81 VIKRPRMAASAKRIKGDLCVCGDPRASGYHNAITCECGKGFPRSTTKNAVKCK N 139  
 QY 81 KQACETTRKTRQCAQRLKQLESQMKKEMIN-----SHEAVE 119  
 DB 140 GSGCYADMYRRKRCQCEGRLEKRCHEMGLACQMTGLTELOCKSKRLKRNKQHAQVQV 199  
 QY 120 E-----KRALIKKKKSRGTQPLQVGLTHQKMMIKRLMDAOKKEDFTTSIRKRF 172  
 DB 200 EIDSEKRLQVSTTKPRKETE-----LTAQQTLLDYIMDSYKQ----- 242  
 QY 173 KLVNVSISGELPESIQASREPAKWSQVRKDIQSLKSIQLQKGGSVNWKPPASG 242  
 DB 243 KMQQIT-----NKIKTK-----EFS 258  
 QY 233 GKETSLIHMMIMSTYMERGIISPAKVIYEPDLPLEDQISLKGAEFLQVLRNFVE 292  
 DB 259 AEENFTL---TEMAISVQLVEFTRKILRGFTLDHEQIALKKSAVEAMFLRSATLF 315  
 QY 293 NATGTWEGRLSYCLEHTAGCPQILLRMLKEMMLKQDHEEYVLMQALISLSD 352  
 DB 316 NKKLPAGADLLEERTKRS--GISDEYIIPMESEYKSGELKMTGFEVALTAIVISPD 373  
 QY 353 RGVVQIHVAVDQLEQFAILLKSYIECNRP--PAIRFLKIMAMITERSINAOHTQRL 411  
 DB 374 RQYTKRREAVKQEPDQIVLQALKMQYQENQH--FALTLGRITELTENNHAEM 430  
 QY 412 L--RTQDHPFATPLMQELGI 431  
 DB 431 MSKRVND--IKF--TPLLCEIMDV 450

RESULT 33  
 5223606-4  
 Patent No. 5223606  
 APPLICANT: BIAUDIN DE THE, HUGHES, MARCHIO, AGNES-TIOLLATS,  
 PIERRE-DEJEAN, ANNE  
 TITLE OF INVENTION: STEROID/THYROID HORMONE RECEPTOR-RELATED  
 PROTEIN INAPPROPRIATELY EXPRESSED IN HUMAN HEPATOCELLULAR CARCINOMA  
 NUMBER OF SEQUENCES: 11  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/07/134,130  
 FILING DATE: 17-DEC-1987  
 PRIOR APPLICATION DATA:  
 SEQ ID NO:4  
 LENGTH: 455  
 5223606-4

Query Match 18.98; Score 432; DB 6; Length 455;  
 Best Local Similarity 29.38; Pred. No. 1.5e-34;  
 Matches 118; Conservative 65; Mismatches 156; Indels 64; Gaps 14;

QY 41 GAVCDKATGYHENVTCGCGKGFPRAKKNAAR--LRQPRKACETTRKTRQCAQRL 98  
 DB 1 GAVCDKATGYHENVTCGCGKGFPRKTKQKNHNSYGRK--FKQVLDKVTNRQVGRK 99  
 QY 99 LRKLESQMKKEMINSDPAVERKRALIKKKSR-----TTHQVQVGLLEPQMM 150  
 DB 60 FKQTVYMATDVLVDQSKRLAKKLLPENRERERERELQSKTQKRF--EPTDEWEL 115  
 QY 151 TRFLMDAOKKEDFTTSIRKRFILGVLSSTQELPESL--QVMSREAKKWSQVKRQDST 209  
 DB 116 KTVIEAIVAT--NAQSNRK--QKRF-----LPEIQGAN----- 148  
 QY 210 KVSILQKQEDNSVNNWKPPASGSKELSLPMMIMSTYMERGIISPAKVIYEPDLP 269  
 DB 149 -----LVN--APRGQVLDKATSHFTKILIPATKVVLPKAKLPMQELQPC 192  
 QY 270 EYQISLKGAEFLQVLPNTVNAETGWEC--GRISTGLEHTAGCPQILLRMLKRY 328  
 DB 193 EDQILIKGQCMELMSRAAVYDESELTLLNEMAVIRQIKNGQGVVSMALFDQGM 252  
 QY 329 MKKQDHEEYVLMQALISLSDRQVQVQIHRVAVQVQVATLKSYTE--NRQVAFRR 388  
 DB 251 SLSSNLDQTHVALDVAVILMSDPRGLACVRRITKRYQVLSLAFRRITNRKHHVTH-- 410  
 QY 389 LFLKIMAMITERSINAOHTQRLRTQDLP--FATPLMQEL 429  
 DB 311 EPRKLMKVTDLMKIGVASHAFELMKVECTELLPLFLVE 453

RESULT 34  
 5223606-2  
 Patent No. 5223606  
 APPLICANT: BIAUDIN DE THE, HUGHES, MARCHIO, AGNES-TIOLLATS,  
 PIERRE-DEJEAN, ANNE  
 TITLE OF INVENTION: STEROID/THYROID HORMONE RECEPTOR-RELATED  
 PROTEIN INAPPROPRIATELY EXPRESSED IN HUMAN HEPATOCELLULAR CARCINOMA  
 NUMBER OF SEQUENCES: 11  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/07/134,130  
 FILING DATE: 17-DEC-1987  
 PRIOR APPLICATION DATA:  
 SEQ ID NO:2  
 LENGTH: 448  
 5223606-2  
 Query Match 18.78; Score 428; DB 6; Length 448;  
 Best Local Similarity 40.68; Pred. No. 5.2e-44;  
 Matches 132; Conservative 60; Mismatches 159; Indels 80; Gaps 14;

QY 9 ANH---AOFVIDEPTES--VGRKPSVNDK--EYGGPQICVCGSDKATGYHENVTCGCGK 62  
 DB 45 WQRRHVASTLQYSTSESLVSPSPDPYRVKPF--GVVQKSSYTHGVASGDEGRK 102  
 QY 63 GPRPRAKKNAARLRQPRKACETTRKTRQCAQRLKQLESQMKKEMINSDPAVERR 122  
 DB 103 GPRPRKQKNMAYTG--HDKRNVTKRVTNRQVGRQKQTPVMSKSSVND-- 154  
 QY 123 ALIKKKKSRGTQPLQVGLLEPQMM--TRFLMDAOKKEDFTTSIRKRFILGVLS 180  
 DB 155 ---RNRKKETSKQF-----CTESYEMTAEIDLETKIRKAHQETP 194  
 QY 181 GQELPESIQASREPAKWSQVRKDIQSLKSIQLQKGGSVNWKPPASGSKELPSIL 240  
 DB 195 LQVLSKVTINSSAQR-----RVRDQ-----GMD 219  
 QY 241 PRMAQSTYMERGIISPAKVIYEPDLPLEDQISLKGAEFLQVLRNFVNAE--TGT 298  
 DB 220 -KFSLEATKQITKRYEPRKRLRGFTGLIADQITLLKAAQITDILIKRQITVTRQDLM 278



: CURRENT APPLICATION NUMBER: US/08/653,648A  
 : CURRENT FILING DATE: 1996-05-24  
 : PRIOR APPLICATION NUMBER: GB 9510759.5  
 : PRIOR FILING DATE: 1995-05-26  
 : PRIOR APPLICATION NUMBER: GB 9605656.9  
 : PRIOR FILING DATE: 1996-04-18  
 : PRIOR APPLICATION NUMBER: GB 9513882.2  
 : PRIOR FILING DATE: 1995-07-07  
 : PRIOR APPLICATION NUMBER: GB 9517316.7  
 : PRIOR FILING DATE: 1995-08-24  
 : NUMBER OF SEQ ID NOS: 65  
 : SOFTWARE: Patent in version 3.0  
 : SEQ ID NO 12  
 : LENGTH: 557  
 : TYPE: PRT  
 : ORGANISM: Manduca sexta  
 : US-08-653-648A-12

Query Match 18.5% Score 423 DB 4 Length 557  
 Best Local Similarity 26.2% Pred. No. 2,26-33  
 Matches 124: Conservative 89; Mismatches 159; Indels 102; Gaps 15;

QY 2 EVRRKESNNHAFVCEPTESVYKPSVNADEVGGR-----QICRVCQKATGVHNV 55  
 DB 115 ELSPASSINGD-----SLGEPK-----KQKGPAPROEDHGLVCGDASGVHNA 161  
 QY 56 MTECEKGFERRAMKRNKRIKPFKKGCELTTRTRQOQARLKCLESGKKKEMSD 115  
 DB 162 TFCGCKGPFRRSVTKNAVYCKRFGH-AEMDMYRRKCKQCEKRLKCLAVNRDPEVYVF 220  
 QY 116 EAVERRKALIKKKSKSRIGTQPLVQGLTFEQ-----KMMIR 152  
 DB 221 STCKKKR-----HEKAGQHEKCKLPSTTIVDMMPAIMQCCPPPEAKRIHEVYKRLTE 276  
 QY 153 EIMDA-QMKTEDTFSHFKNRFLPGVSSGCELPESLOAPSRFAKKSQYKRLDSUKV 211  
 DB 277 KIMBONKRLKNTPLSANOKSLIARLVM-----YQRYEYQPSFEDKRVYQ----- 422  
 QY 212 SLQIKRFGKSVNRYKPPDSGKTEFSLPHADMSTYMKRIISFAVISTFRULPED 271  
 DB 323 TWQLEEE-----EEEDMEFRQI-----TEMTILTVQILVFAGKLPESKISQSD 369  
 QY 272 QISLKGAFELQJLRFNVNAFTGT-----MEGRISYLEDIAGGFOOL 318  
 DB 370 QITLKASSSEVMILRVARPAIDSVLPANNQAVTRDNYKRAKMSVIEH----- 421  
 QY 319 LLEPMKRYMYLKLQILHEEYVIMQALISLSPORGVILQIRVVDQDQVATLKSYT- 377  
 DB 422 ---LHFRGCMYSMSMNVAALIAVIFS-DKPGDQPLVEEDIDRYVYKTLVYIL 476  
 QY 478 EGNRPQAHRELEKIMAMITFLRSTINQHTDRLRIQDIDFAPIMQELFGI 441  
 DB 477 NQHSASPRVLEKIKLIVLIFRLGLTONSMISTLKIKNKLPPLEFEMV 540

RESULT 38  
 : US-08-764-870-2  
 : Sequence 2, Application US/08764870  
 : Patent No. 6,236,946  
 : GENERAL INFORMATION:  
 : APPLICANT: Scanlan, Thomas S  
 : APPLICANT: Haxter, John D  
 : APPLICANT: Ellettelick, Robert J  
 : APPLICANT: Wagner, Richard T  
 : APPLICANT: Kushner, Peter J  
 : APPLICANT: Apolloni, James W  
 : APPLICANT: West, Brian  
 : TITLE OF INVENTION: Nuclear Receptor Ligands and Ligand  
 : TITLE OF INVENTION: Binding Domains  
 : NUMBER OF SEQUENCES: 16  
 : CORRESPONDENCE ADDRESS:  
 : ADDRESS: Cooley Gaudard  
 : STREET: Five Palo Alto Square, 4000 E] Camino Real

: CITY: Palo Alto  
 : STATE: CA  
 : COUNTRY: USA  
 : ZIP: 94406  
 : COMPUTER REAMABLE FORM:  
 : MEDIUM TYPE: floppy disk  
 : COMPUTER: IBM pc compatible  
 : OPERATING SYSTEM: pc-dos/MS DOS  
 : SOFTWARE: Patent in Release #1.0, Version #1.0  
 : CURRENT APPLICATION DATA:  
 : APPLICATION NUMBER: US/08/764,870  
 : FILING DATE: 13-DEC-1996  
 : CLASSIFICATION: 530  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: US 60/008,540  
 : FILING DATE: 13-DEC-1995  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: US 60/008,544  
 : FILING DATE: 13-DEC-1995  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: US 60/008,606  
 : FILING DATE: 13-DEC-1995  
 : ATTORNEY/AGENT INFORMATION:  
 : NAME: Nakamura, Jackie N  
 : REGISTRATION NUMBER: 35,966  
 : REFERENCE/AGENT NUMBER: 07AL-246/01US  
 : TELECOMMUNICATION INFORMATION:  
 : TELEPHONE: (650)843-5000  
 : INFORMATION FOR SEQ ID NO: 2:  
 : SEQUENCE CHARACTERISTICS:  
 : LENGTH: 410 amino acids  
 : TYPE: amino acid  
 : STRANDEDNESS:  
 : TOPOLOGY: linear  
 : MOLECULE TYPE: protein  
 : US-08-764-870-2

Query Match 18.3% Score 418 DB 4 Length 410  
 Best Local Similarity 27.7% Pred. No. 4,56-445  
 Matches 120: Conservative 66; Mismatches 167; Indels 80; Gaps 14;

QY 17 CEDTESVGRK PS-VNADEVGQVQIQVQDQKAGVYFNVMIGCRKGFERRAMKRNAR 74  
 DB 33 SIKTSMSGVLPSLQKQDQ-----CVVQDKADGVHYRCLIDCKCKGFRRLIQGNLI 86  
 QY 75 -LCTPRKAGCEITRKTRQOQARLKCLESGKKKEMSDAVERRALIKKSKSR 142  
 DB 87 PTVSRKY-PSGVVTKRIKNGQVCFKPKKTLAVDMAMQVILDSKRVAKRKIFQNRFRK 145  
 QY 144 TGVPLAVQGLTFEQRMKIRELMQMKTEFDTFSHFKNRFLPGVSSGCELPESLOAPS 192  
 DB 146 -----KKEPMKISLQDPEPTPEW-----QLDILATFAKSNK- 190  
 QY 193 REFAKKSQVGRKDIKLSKSTQIQKQKSSVNNKPPAUSGKTEFST- 198 242  
 DB 181 QUSIMKQKRRKPL-----PDDIISPLVSMDDKQVLEAFSE 217  
 QY 243 MADMSYWEKQISFAVISTFRULPEDQISLKGAFELQJLRFNVNAFTGTME-Q 401  
 DB 218 FTKLITTAITVVDPAKRLPESLPCEDQITLKGGCMELMSIAAVRVDFESVILIS 277  
 QY 302 GRLSVGLDFTAGQVQVILLEPMKRYMYLKLQILHEEYVIMQALISLSPORGVILQIRV 361  
 DB 278 GEMAVKREQLKNQIGVVSDAIFELGKSLSAFNIDJLEVALIIVLMSLQKSLAVDK 347  
 QY 402 VMDQDQFALLIKSVYEVNRPQAHRELEKIMAMITFLRSTINQHTDRLRIQDIDFAPIM 416  
 DB 408 IKSQFATLAPRIVNRRKNTIH--FWIKLKVITLAKQVQVHASKELIRKVEPTTE 495  
 QY 417 IHPAETPMQELF 429  
 DB 406 LFD---PLFLVVF 405



GenCore version 5.1.4.p5.4578  
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OM protein - protein search, using SW model

Run on: April 15, 2003, 11:21:47 : Search time 16.5074 seconds

(without alignments)  
1088.854 Million cell updates/sec

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Percent score: 15.29  
Sequence: 1 OGTEFGKMMIRELMADQMK.....OGHPATPMQTEFTHGS 294

Scoring table:

BLASTNM62  
Gapop 10.0, Gapext 0.5

Searched: 248812 seqs, 61136040 residues

Total number of hits satisfying chosen parameters: 248812

Minimum hit seq length: 0

Maximum hit seq length: 2000000000

Post-processing: Minimum Match 08

Listing first 45 summaries

Database:

1: Published\_Applications\_AA\*  
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3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*  
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13: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*  
14: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*

Print. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Query Length	Hit ID	Description
1	15.29	100.0	434	US-09-143-828-2	Sequence 2, Appl1
2	15.29	100.0	473	US-09-143-828-4	Sequence 4, Appl1
3	14.11	92.3	434	US-09-227-718-2	Sequence 2, Appl1
4	5.92	46.7	386	US-10-153-827-2	Sequence 2, Appl1
5	4.79.5	31.4	257	US-09-814-569-1	Sequence 1, Appl1
6	4.79.5	31.4	348	US-09-760-364-1	Sequence 1, Appl1
7	4.65	30.4	359	US-09-760-364-9	Sequence 9, Appl1
8	4.32.5	28.3	358	US-09-760-364-2	Sequence 2, Appl1
9	2.82	18.4	286	US-09-883-093-2	Sequence 2, Appl1
10	2.82	18.4	286	US-09-760-364-3	Sequence 3, Appl1
11	2.44.5	16.0	446	US-09-909-446-2	Sequence 2, Appl1
12	2.44.5	16.0	446	US-09-909-446-2	Sequence 2, Appl1
13	2.44.5	16.0	446	US-09-909-446-2	Sequence 2, Appl1
14	2.44.5	16.0	446	US-10-013-823-2	Sequence 2, Appl1
15	2.44.5	15.9	461	US-10-013-823-4	Sequence 4, Appl1
16	2.41.5	15.8	476	US-10-188-721-1	Sequence 1, Appl1
17	2.41.5	15.1	469	US-10-155-379-2	Sequence 2, Appl1
18	2.01	14.1	448	US-09-814-604-2	Sequence 2, Appl1
19	2.01	14.1	448	US-09-797-727-4	Sequence 4, Appl1

20	2.00	13.1	462	US-09-814-604-1	Sequence 1, Appl1
21	2.00	13.1	462	US-09-797-727-3	Sequence 3, Appl1
22	1.98	12.9	272	US-09-921-650-23	Sequence 23, Appl1
23	1.98	12.9	272	US-09-874-489-24	Sequence 24, Appl1
24	1.98	12.9	549	US-09-965-704-18	Sequence 18, Appl1
25	1.98	12.9	550	US-09-853-450-18	Sequence 18, Appl1
26	1.98	12.9	584	US-09-965-704-17	Sequence 17, Appl1
27	1.98	12.9	625	US-09-965-704-16	Sequence 16, Appl1
28	1.98	12.9	746	US-09-042-4888-5	Sequence 5, Appl1
29	1.98	12.9	746	US-09-042-4888-7	Sequence 7, Appl1
30	1.98	12.9	1041	US-09-042-4888-9	Sequence 9, Appl1
31	1.94.5	12.7	323	US-09-965-704-20	Sequence 20, Appl1
32	1.89.5	12.4	688	US-09-941-0072A-1	Sequence 1, Appl1
33	1.89.5	12.4	750	US-10-005-4374-3	Sequence 3, Appl1
34	1.89	12.4	505	US-09-765-111A-16	Sequence 16, Appl1
35	1.89	12.4	516	US-09-895-840-2	Sequence 2, Appl1
36	1.89	12.4	777	US-09-765-111A-2	Sequence 2, Appl1
37	1.89	12.4	811	US-09-765-111A-4	Sequence 4, Appl1
38	1.89	12.4	840	US-09-765-111A-6	Sequence 6, Appl1
39	1.89	12.4	874	US-09-765-111A-6	Sequence 6, Appl1
40	1.88.5	12.3	445	US-09-965-704-19	Sequence 19, Appl1
41	1.88	12.3	475	US-10-142-474-2	Sequence 2, Appl1
42	1.87.5	12.3	606	US-09-952-559-3	Sequence 3, Appl1
43	1.86	12.2	478	US-09-765-111A-27	Sequence 27, Appl1
44	1.86	12.2	506	US-10-109-886-6	Sequence 6, Appl1
45	1.76	11.5	320	US-09-965-704-15	Sequence 15, Appl1

#### ALIGNMENTS

RESULT 1	US-09-143-828-2	Sequence 2, Appl1
1	Publication No. US20040032790A1	
2	GENERAL INFORMATION:	
3	APPLICANT: Pharmacia & Upjohn	
4	TITLE OR INVENTION: No. US20040032790A1 Vitamin D Receptor Related Polypeptides	
5	FILE REFERENCE: 10805-65	
6	CURRENT APPLICATION NUMBER: US/09/143, 828	
7	CURRENT FILING DATE: 1998 08 31	
8	NUMBER OF SEQ. ID NOS: 4	
9	SUMMARY: Patent in Vol. 2.0	
10	SEQ. ID NO. 2	
11	LENGTH: 434	
12	TYPE: PRT	
13	ORGANISM: Artificial Sequence	
14	FEATURE:	
15	OTHER INFORMATION: Description of Artificial Sequence: Predicted amino acid sequence of vitamin D receptor related amino	
16	OTHER INFORMATION: (VDRK1)	
17	US-09-143-828-2	
18	Query Match	100.0% Score 15.29; 38 % Length 434
19	Post Local Similarity	100.0% Pred. No. 4, 8e-151
20	Matches: 294; Conservative 0; Mismatches 0; Indels 0; Gaps 0	
21	1 OGTEFGKMMIRELMADQMKTEFTESHKPKRLGVLSSTGLFESTGALSRFAAKWS 60	
22		
23	141 OGTEFGKMMIRELMADQMKTEFTESHKPKRLGVLSSTGLFESTGALSRFAAKWS 200	
24		
25	61 GVRKRLSLKSLSLQRLGEGSSVMWYKPPADSGKKEIFSLPHHMAKSTYMKKGLISPAKV 120	
26		
27	121 GVRKRLSLKSLSLQRLGEGSSVMWYKPPADSGKKEIFSLPHHMAKSTYMKKGLISPAKV 260	
28		
29	121 GVRKRLSLKSLSLQRLGEGSSVMWYKPPADSGKKEIFSLPHHMAKSTYMKKGLISPAKV 420	
30		
31	141 GVRKRLSLKSLSLQRLGEGSSVMWYKPPADSGKKEIFSLPHHMAKSTYMKKGLISPAKV 480	
32		
33	141 GVRKRLSLKSLSLQRLGEGSSVMWYKPPADSGKKEIFSLPHHMAKSTYMKKGLISPAKV 540	
34		
35	141 GVRKRLSLKSLSLQRLGEGSSVMWYKPPADSGKKEIFSLPHHMAKSTYMKKGLISPAKV 600	
36		
37	141 GVRKRLSLKSLSLQRLGEGSSVMWYKPPADSGKKEIFSLPHHMAKSTYMKKGLISPAKV 660	
38		
39	141 GVRKRLSLKSLSLQRLGEGSSVMWYKPPADSGKKEIFSLPHHMAKSTYMKKGLISPAKV 720	
40		
41	141 GVRKRLSLKSLSLQRLGEGSSVMWYKPPADSGKKEIFSLPHHMAKSTYMKKGLISPAKV 780	
42		
43	141 GVRKRLSLKSLSLQRLGEGSSVMWYKPPADSGKKEIFSLPHHMAKSTYMKKGLISPAKV 840	
44		
45	141 GVRKRLSLKSLSLQRLGEGSSVMWYKPPADSGKKEIFSLPHHMAKSTYMKKGLISPAKV 900	
46		
47	141 GVRKRLSLKSLSLQRLGEGSSVMWYKPPADSGKKEIFSLPHHMAKSTYMKKGLISPAKV 960	
48		
49	141 GVRKRLSLKSLSLQRLGEGSSVMWYKPPADSGKKEIFSLPHHMAKSTYMKKGLISPAKV 1020	
50		

07 241 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 294  
 100 001 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 444

# RESULT 2

US 09 143 928 4  
 Sequence 2: Application US/09/143 928  
 Publication No. US2004004490A1

## GENERAL INFORMATION:

APPLICANT: Pharmacia & Upjohn

TITLE OF INVENTION: No. US2004004490A1 Vitamin D Receptor Related Polypeptides, Nucleic Acids, and Compositions

FILE REFERENCE: 10096 65

CURRENT APPLICATION NUMBER: US/09/143 928

CURRENT FILING DATE: 1998 08 31

NUMBER OF SEQ ID NOS: 4

SOFTWARE: PatGen 2.0

SEQ ID NO: 4

LENGTH: 473

ORGANISM: Artificial Sequence

FEATURES: Description of Artificial Sequence: (boxed amino acid sequence of Vitamin D receptor related)

OTHER INFORMATION: (none)

US 09 143 928 4

## Query Match

Best Local Similarity: 100.0% Score: 15295 DB: 92 Length: 473

Matches: 294 Conserved: 0; Mismatches: 0; Indels: 0; Gaps: 0

07 1 GATTEGQMMRLMAMGKRTFTTSEHKNRGLVSSRTEPEGLAASREFAAKS 60  
 100 GATTEGQMMRLMAMGKRTFTTSEHKNRGLVSSRTEPEGLAASREFAAKS 259

07 61 GVRKIDSLKSLGADGAGVWNYKPLVDSGKEFSLPHMAKSTYMKRTISAKV 120  
 100 GVRKIDSLKSLGADGAGVWNYKPLVDSGKEFSLPHMAKSTYMKRTISAKV 293

07 121 ISEFRLDLDQSLKGAARGLQRPNVFNATGWTGRI SYLLEDAACQGLL 180  
 100 ISEFRLDLDQSLKGAARGLQRPNVFNATGWTGRI SYLLEDAACQGLL 359

07 181 EFMKRFHMKKKLDDEEYVLMQALSLSPRGVGLHVVVQLOFATTKSTECN 24  
 100 EFMKRFHMKKKLDDEEYVLMQALSLSPRGVGLHVVVQLOFATTKSTECN 419

07 241 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 294  
 100 001 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 444

## RESULT 3

US 09 227 718 2  
 Sequence 2: Application US/09/227 718  
 Publication No. US2004004490A1

## GENERAL INFORMATION:

APPLICANT: Evans, Ronald M.

TITLE OF INVENTION: NOVEL STRAIGHT ACTIVATED NUCLEAR

FILE REFERENCE: SLK2270 1

CURRENT APPLICATION NUMBER: US/09/227 718

CURRENT FILING DATE: 1999 01 09

EXAMINER FILING DATE: 1999 01 09

NUMBER OF SEQ ID NOS: 65

SOFTWARE: FASTSEQ for Windows Version 3.0

SEQ ID NO: 2

LENGTH: 444

TYPE: 1991

ORGANISM: Homo sapiens  
 FEATURE:  
 OTHER INFORMATION: X-axis: theoretical  
 US 09 227 718 2

Query Match 92.0% Score: 1411 DB: 92 Length: 444  
 Best Local Similarity: 94.0% Prod. No. 9,400,492  
 Matches: 279 Conserved: 2; Mismatches: 16; Indels: 0; Gaps: 0

07 1 GATTEGQMMRLMAMGKRTFTTSEHKNRGLVSSRTEPEGLAASREFAAKS 60  
 100 GATTEGQMMRLMAMGKRTFTTSEHKNRGLVSSRTEPEGLAASREFAAKS 200

07 61 GVRKIDSLKSLGADGAGVWNYKPLVDSGKEFSLPHMAKSTYMKRTISAKV 120  
 100 GVRKIDSLKSLGADGAGVWNYKPLVDSGKEFSLPHMAKSTYMKRTISAKV 260

07 121 ISEFRLDLDQSLKGAARGLQRPNVFNATGWTGRI SYLLEDAACQGLL 180  
 100 ISEFRLDLDQSLKGAARGLQRPNVFNATGWTGRI SYLLEDAACQGLL 320

07 181 EFMKRFHMKKKLDDEEYVLMQALSLSPRGVGLHVVVQLOFATTKSTECN 240  
 100 EFMKRFHMKKKLDDEEYVLMQALSLSPRGVGLHVVVQLOFATTKSTECN 480

07 241 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 294  
 100 001 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 444

07 481 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 444

07 481 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 444

07 481 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 444

07 481 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 444

07 481 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 444

07 481 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 444

07 481 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 444

07 481 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 444

07 481 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 444

07 481 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 444

07 481 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 444

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07 481 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 444

07 481 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 444

07 481 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 444

07 481 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 444

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07 481 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 444

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07 481 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 444

07 481 RGVVAFHPLFLKIMAMLEIKSINAGHTGRLRLQDHPFATPLMGLPGLTGS 444

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; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
 US-10-153-827-2

Query Match	38.7%	Score	592	OH	9	Length	386
Best Local Similarity	44.8%	Pred. No	1.8e-53				
Matches	127	Conservative	46	Mismatches	71	Indels	45
							Caps
							6

QY	3	LTEE8MMI	REIMDQOMT	FOTTFESHK	KFKRFLNGV	SSGCELP	ESDIOAS	SPREAAK	SOV	6.2
Db	138	LTPEUOH	LTQVGAH	KI	EOEN	FTFSKFR	-----	-----	-----	171
QY	63	KKOLCST	SVSLQI	ROEIM	SVNMYK	KIPPAIS	SGCELS	SLAPHMAD	MSYMK	122
Db	172	-----	-----	-----	-----	-----	-----	-----	-----	215
QY	123	YEROLP	FLDOL	SLKGA	AEFL	FOLEPEN	VENAFET	GWEGK	SYCELO	181
Db	214	YKSLD	FLDQ	IALK	KSVA	SVAF	AFN	TVFN	STIN	275
QY	182	FMUKHY	KKI	QI	QHEEY	LMGAL	SLDS	SPDEGV	GLVH	211
Db	274	PLVATH	HMIRKI	INVS	SEYAA	MAAL	SLT	PASYK	KGAV	355
QY	242	-----	-----	-----	-----	-----	-----	-----	-----	299
Db	334	TPSVH	KLCTYK	IMET	TEK	TVNO	IKS	QULLE	WIOU	385

REFERENCE  
US-09-814,569-1  
Sequence 1, Application US/09814569

```

1  GENERAL INFORMATION:
2  APPLICANT: TOLKS, Derek J.
3  APPLICANT: Collins, Jon L.
4  TITLE OF INVENTION: RECEPTOR
5  FILE REFERENCE: PG4854
6  CURRENT APPLICATION NUMBER: US/05/814,569
7  CURRENT FILING DATE: 2001-03-22
8  PRIOR APPLICATION NUMBER: 60/191,493
9  PRIOR FILING DATE: 2000-03-23
10 NUMBER OF SEQ ID NOS: 3
11 SOFTWARE: FASTSEQ for Windows Version 4.0
12 SEQ ID NO: 1
13 LENGTH: 257
14 TYPE: PRT
15 ORGANISM: homo sapiens
16 FEATURE:
17 NAME/KEY: PEPTIDE
18 LOCATION: (1)..(11)
19 OTHER INFORMATION: modified histidine tag
20 US 09 814-569-1

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Query Match 31.48; Score 479.5; BH 10; Length 257;  
Best Local Similarity 39.68; Pred. No. 5.4e-42;  
Matches 112; Conserved 40; Mismatches 88; Indels 47; Gaps 4

QY	4	ITERHMLREIMDQMKIETOTFESKRPDCEVSSSTCEJESJQASFEFAAKSQV	6,2
DB	15	ISKREHLLIRLITAMTRHGMFMFCVFOKRIANLPHTHQPLPLALV-----	6,2
QY	6,3	KRDLSLKAVSGLROEDSNVWYKQPAISDCKEFTSLIRHMDMSYVMKLTISKAVLN	1,2
DB	6,3	-----VLPLVTHFAINTEFWGLVRIKRPD	8,9
QY	1,3	YKRDLPTEHQSLIKGAAPETLCQRLNTVENAFQIWEQGRSLCYLFEYAG-QEQLLLE	1,8
DB	90	VKPSLPTEHQSLIKGAAPETLCQRLNTVENAFQIWEQGRSLCYLFEYAG-LEKLE	1,9
QY	1,82	FMLEKHYMKIKQIPIHEFEVLMALSLFESDQRIQVQIHEVVLQDQEFANLTKSTYECNR	2,1

[illegible]

REF ID: A67809  
US-09-760 364-1

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1 Patient No: US20020152479A1
2
3 GENERAL INFORMATION:
4
5 APPLICANT: Lohmann, Joergen Michael
6
7 APPLICANT: Shuan, Andrew Kwan-Man
8
9 APPLICANT: Talarik, Inc.
10
11 TITLE OF INVENTION: CAR Modulators: Screening and Treatment of
12
13 TITLE OF INVENTION: Hypercholesterolemia
14
15 FILE REFERENCE: 040781-004110US
16
17 CURRENT APPLICATION NUMBER: US/09/760,464
18
19 CURRENT FILING DATE: 2001-01-12
20
21 PRIOR APPLICATION NUMBER: US 60/176,498
22
23 PRIOR FILING DATE: 2000-01-13
24
25 NUMBER OF SEQ ID NOS: 14
26
27 SOFTWARE: Patent In Vcr. 2.1
28
29 SEQ ID NO 1
30
31 LENGTH: 448
32
33 TYPE: PRT
34
35 ORGANISM: Homo sapiens
36
37 FEATURE:
38
39 OTHER INFORMATION: human constitutive androstano receptor (VAR) sequence
40
41 US-09-760-464-1

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Query Match	41.48%	Score	479.11	148.10	Length	348			
Host Local Similarity	39.08%	Pred. No.	8.2e-42						
Matches	112	Conservative	40	Mismatches	88	Indels	47	Gaps	4

[illegible]

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1  RESULT 7
2  US-07-760-364-9
3  Sequence 9, Applicant from US-09760-364
4  Patent No. US200215279A1
5  GENERAL INFORMATION:
6  APPLICANT: Ishamori, Juergen Michael
7  APPLICANT: Shinn, Andrew Kwai-Nan
8  APPLICANT: Fukarik, Iori
9  TITLE OF INVENTION: SAR Modulators: Screening and treatment of
10  TITLE OF INVENTION: Hypertrochostyrols
11  FILE REFERENCE: 018781-0041405
12  CURRENT APPLICATION NUMBER: US-09/760-364
13  CURRENT FILING DATE: 2001-01-12
14  PRIOR APPLICATION NUMBER: US-60/776,398
15  PRIOR FILING DATE: 2000-01-13

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CURRENT FILING DATE: 2001-01-12  
 PRIOR APPLICATION NUMBER: US 69/176,398  
 PRIOR FILING DATE: 2000-01-14  
 NUMBER OF SEQ ID NOS: 14  
 SOFTWARE: Patent In Ver. 2.1  
 SEQ ID NO: 3  
 LENGTH: 286  
 TYPE: PRT  
 ORGANISM: Mus musculus  
 FEATURES:  
 OTHER INFORMATION: mouse constitutive androstane receptor (CAR) beta 2  
 US-09-760-364-3

Query Match 18.4% Score 282; Dh 10; Length 286;  
 Best Local Similarity 40.8%; Prev. No. 2,46-21;  
 Matches 75; Conservative 25; Mismatches 66; Indels 18; Gaps 6;

QY 44 LPEIQAVSREAA--KNSVKKDLSKVSQLEGGDSVWN---YKPPA----- 89  
 DB 99 LKRAQQAARAKKASLOLNQCKELVQILLAHTR-HVGPPLDFQVQKPPAYLPMMHRP 157  
 QY 90 -DSGKELFSLPHAMDMSTYMKGISFAVISTFRIPIEDQISLKGAFELQQLRF 148  
 DB 158 FQPKQ-PVILPLTHFADINTFMVQDILKFKDLPLFRSLTMEQDLSLKAAYETIHSL 216  
 QY 149 NIVFAELGTWEGCGLSCLEHIA-GCFQQLLEMLKPHMLKKQLAHEHYVMQALS 207  
 DB 217 NTFPLQLENFCQGLYKMEQAVHACDYETLESILAFHRLKQLHQLQEPYVLMAMIA 276  
 QY 208 LESP 211  
 DB 277 LESP 280

RESULT 11  
 US-09-909-446-2  
 Sequence 2, Application US/0909446  
 Patent No. US20020052489A1  
 GENERAL INFORMATION:  
 APPLICANT: ENMARK, EVA  
 GUSTAFSSON, JAN  
 TITLE OF INVENTION: OR-1 ON ORPHAN RECEPTOR BELONGING  
 TO THE NUCLEAR RECEPTOR FAMILY  
 NUMBER OF SEQUENCES: 11  
 ADDRESS/INVENTOR ADDRESS:  
 ADDRESSSEE: Banner & Witcoff  
 STREET: 1001 G Street, NW  
 CITY: Washington  
 STATE: DC  
 COUNTRY: USA  
 ZIP: 20001  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FastSeq for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/909,446  
 FILING DATE: 19-Jul-2001  
 CLASSIFICATION: <unknown>  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/776,844  
 FILING DATE: <unknown>  
 APPLICATION NUMBER: 08/776,844  
 FILING DATE: <unknown>  
 FILING DATE: 16-AUG-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Kagan, Sarah A  
 REGISTRATION NUMBER: 42141  
 REFERENCE/DOCKET NUMBER: 00487, 04029  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 202-508-9100  
 TELEFAX: 202-508-9299

TELEX: <unknown>  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 446 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
 US-09-909-446-2

Query Match 16.0% Score 244; Dh 5; Length 446;  
 Best Local Similarity 26.0%; Prev. No. 4,66-17;  
 Matches 77; Conservative 55; Mismatches 101; Indels 64; Gaps 10;

QY 3 LTHQRMKRLMVAQKFLTFPSHKRFLQGLVSSGCHLPEIQAVSREAAKVSQV 62  
 DB 205 LTAQELMQLQVAALQCKRSES-----LQPVLPF--- 248  
 QY 63 PKDLGSLKVSQLEGGDSVWNKPPADSGKELFSLPHAMDMSTYMKGISFAVIS 122  
 DB 239 -----LQAD-----PQSRDAKQVFA--HFTLALISVQELVDPKQVP 275  
 QY 123 YFRPLIEDQISLKGAFELQQLRENTVENAFGTWEC---GRISVLEP-LANGPQV 177  
 DB 276 GFDLQKFNQVALLKASTIELMLFTARRNHET---FLITLKLQFTYSKQDRAALQV 342  
 QY 178 LLLRPMKPHYMKKQLQJHEHYVMQALSLSTQKRVQLQHKVYVQLQVPAITLKSYI 217  
 DB 433 EELNPFEESSAMRRSLDAVFAVLAITNFSADRRVQEPSEVFAIQVYVFAALSYI 392  
 QY 248 FGNRQFAHFLFKIMAMLEKSTNAQHTQRL-LKIDLIHFAPLMDQFLFI 291  
 DB 393 KIKPQQLR--FERMLKLVSLKTSVNSQVFAIRLQD--KRLPLLSFTWV 444

RESULT 12  
 US-09-909-425-2  
 Sequence 2, Application US/0909425  
 Patent No. US2002011847A1  
 GENERAL INFORMATION:  
 APPLICANT: ENMARK, EVA  
 GUSTAFSSON, JAN  
 TITLE OF INVENTION: OR-1 ON ORPHAN RECEPTOR BELONGING  
 TO THE NUCLEAR RECEPTOR FAMILY  
 NUMBER OF SEQUENCES: 11  
 ADDRESS/INVENTOR ADDRESS:  
 ADDRESSSEE: Banner & Witcoff  
 STREET: 1001 G Street, NW  
 CITY: Washington  
 STATE: DC  
 COUNTRY: USA  
 ZIP: 20001  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FastSeq for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/909,425  
 FILING DATE: 19-Jul-2001  
 CLASSIFICATION: <unknown>  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/776,844  
 FILING DATE: <unknown>  
 APPLICATION NUMBER: 08/776,844  
 FILING DATE: <unknown>  
 FILING DATE: 16-AUG-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Kagan, Sarah A  
 REGISTRATION NUMBER: 42141  
 REFERENCE/DOCKET NUMBER: 00487, 04029  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 202-508-9100  
 TELEFAX: 202-508-9299



```

QY 64 KKKLQSLKVSJLQJGSDSVNNYKPPADSGCKELFSLPHMADSTYMKGLTISPAKVIS 122
DB 239 -----LQAD-----PQSDAQQORFA---HTEFLAITSVQIVPAKQV 275
QY 124 YFROUJLEUQJSLKGAAPFLQJLEFNVENAFQIWECC---GRLSYCLRE-TAGBPOQ 177
DB 276 GFLQJGRLQJALIKASTELIMLETARVNHET---ECITFLKQFVYSKIDPHRACIQV 332
QY 178 LLLHMLKFTVMKRLQJHEEYVYLMQALSLFSDPRKVLQHRVQJQJREFALLIKSYI 237
DB 333 EFINLFFFSRPMKRLQJDAEYVALLIATINLPSADPRVQVQSVQVQVQVQVQV 392
QY 238 EGNRPQAPRFLKIMLTELRSINQHTORT---LRJODIHPAPFLMOELQCI 291
DB 393 RIKRQJQJQJ---FPRMLMKLVSKLTSSVSHQVQVQVQVQVQVQVQV 444

RESULT 15
US-10-013-823-3
: Sequence 3, Application US/10014823
: Patent No. US20020116731A1
: GENERAL INFORMATION:
: APPLICANT: Genentech, Catherine
: APPLICANT: Phillips, Russell
: APPLICANT: Allen, Keith D.
: APPLICANT: Zhang, Qiu
: APPLICANT: Karibault, Helene
: TITLE OF INVENTION: TRANSGENIC MICE CONTAINING RETINOID X
: TITLE OF INVENTION: RECEPTOR INTERACTING PROTEIN GENE DISRUPTIONS
: FILE REFERENCE: K-684
: CURRENT APPLICATION NUMBER: US/10/013-823
: CURRENT FILING DATE: 2001-12-10
: PRIOR APPLICATION NUMBER: US 60/254,801
: PRIOR FILING DATE: 2000-12-11
: PRIOR APPLICATION NUMBER: US 60/309,404
: PRIOR FILING DATE: 2001-07-31
: NUMBER OF SEQ ID NOS: 5
: SOFTWARE: FASTSEQ for Windows Version 4.0
: SEQ ID NO 3
: LENGTH: 461
: TYPE: PRT
: ORGANISM: Homo sapiens
US-10-013-823-3

Query Match 15.9% Score 243.5; DB 12; Length 461;
Post Local Similarity 26.0%; Pred. No. 4.8e-17;
Matches 77; Conservative 55; Mismatches 101; Indels 63; Gaps 10;

QY 3 LTFEGRMILRELMQMKLFDTFSHFNFRLVGLVSSGCLFESLQAFSREPAKMSQV 62
DB 220 LTAQELMIGQVVAQJGCKRKS-----DQKRVTPW--- 253
QY 64 KKKLQSLKVSJLQJGSDSVNNYKPPADSGCKELFSLPHMADSTYMKGLTISPAKVIS 122
DB 254 -----LQAD-----PQSDAQQORFA---HTEFLAITSVQIVPAKQV 290
QY 124 YFROUJLEUQJSLKGAAPFLQJLEFNVENAFQIWECC---GRLSYCLRE-TAGBPOQ 177
DB 276 GFLQJGRLQJALIKASTELIMLETARVNHET---ECITFLKQFVYSKIDPHRACIQV 332
QY 178 LLLHMLKFTVMKRLQJHEEYVYLMQALSLFSDPRKVLQHRVQJQJREFALLIKSYI 237
DB 333 EFINLFFFSRPMKRLQJDAEYVALLIATINLPSADPRVQVQSVQVQVQVQVQV 392
QY 238 EGNRPQAPRFLKIMLTELRSINQHTORT---LRJODIHPAPFLMOELQCI 291
DB 393 RIKRQJQJQJ---FPRMLMKLVSKLTSSVSHQVQVQVQVQVQVQVQV 444

RESULT 16
US-10-188-721-1
: Sequence 1, Application US/10188721
: Publication No. US2003001919A1

```

```

: GENERAL INFORMATION:
: APPLICANT: BAYER, ULRICH
: APPLICANT: CHERVILLAT, ZACHARY
: APPLICANT: DEUSCHLE, ULRICH
: APPLICANT: LNEBROVSKAYA, ELENA
: APPLICANT: GARMAN, TIM
: APPLICANT: GIEGRICH, KRISTINA
: APPLICANT: HANCAK, KONNIE
: APPLICANT: HERBERT, NORMAND
: APPLICANT: KIELEY, JOHN
: APPLICANT: KOBER, INGO
: APPLICANT: KANTZ, MANFRED
: APPLICANT: KRANZ, HARALD
: APPLICANT: KREMSER, CLAUDS
: APPLICANT: LEE, MATTHEW R.
: APPLICANT: OTTE, KERSTIN
: APPLICANT: SAGE, CARLTON
: APPLICANT: SUD, MANISH
: TITLE OF INVENTION: NR1H4 NUCLEAR RECEPTOR BINDING COMPOUNDS
: FILE REFERENCE: 54904-29
: CURRENT APPLICATION NUMBER: US/10/188,721
: CURRENT FILING DATE: 2002-07-01
: NUMBER OF SEQ ID NOS: 5
: SOFTWARE: Patzilla Ver. 2.1
: SEQ ID NO 1
: LENGTH: 476
: TYPE: PRT
: ORGANISM: Homo sapiens
US-10-188-721-1

Query Match 15.8% Score 241.5; DB 9; Length 476;
Post Local Similarity 31.9%; Pred. No. 8.1e-17;
Matches 65; Conservative 44; Mismatches 82; Indels 14; Gaps 7;

QY 94 KTESLH--MADSTYMKGLTISPAKVISTYRPLFEDQJSLKGAAPFLQJLEFNI 150
DB 279 KEESAENELFLDEMAINQVQVLEFKLQJQJLHEUQJALIKGAAPFLQJLEFNI 338
QY 151 VFNETQWEGKRLSYLQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJ 210
DB 339 LFNKRLPSGSHDLLEKRLS--GISQVYTPMSFYSKIDELMKLQJQJQJQJQJQJ 496
QY 211 PQRQVQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJ 269
DB 397 PDKQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJQJ 453
QY 270 KLL-KIUDIHPPATFLMOELQCI 291
DB 454 MMSKRVND-HKF-IPICETWV 476

RESULT 17
US-10-155-379-2
: Sequence 2, Application US/10155379
: Publication No. US2003002290A1
: GENERAL INFORMATION:
: APPLICANT: Evans, Ronald M.
: APPLICANT: Forman, Barry M.
: APPLICANT: Woldberger, Gary A.
: TITLE OF INVENTION: METHOD FOR MODULATING PROCESSES MEDIATED
BY FARNESOID ACTIVATED RECEPTORS
: NUMBER OF SEQUENCES: 7
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Timothy Schroeder, Bruce Mann & Clark
: STREET: 444 South Flower Street, Suite 2000
: CITY: Los Angeles
: STATE: CA
: COUNTRY: USA
: ZIP: 90071
: COMPUTER READABLE FORM:
: MEDIUM TYPE: floppy disk
: COMPUTER: IBM pc compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS

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1 004 KWAME: Patent to Reissue #1-0, Version #1.25
2
3 CURRENT APPLICATION DATA:
4   APPLICATION NUMBER: US/01/0156,479
5   FILING DATE: 24 May 2002
6   CLASSIFICATION: Unknown
7   PRIOR APPLICATION DATA:
8     APPLICATION NUMBER: US/08/472,184
9     FILING DATE: Unknown
10    ATTORNEY/AGENT INFORMATION:
11      NAME: Kottler, Stephen B.
12      REGISTRATION NUMBER: 31,192
13      REFERENCE/WORKSHEET NUMBER: 041 0844
14    TELECOMMUNICATION INFORMATION:
15      TELEPHONE: 619 546 4747
16      TELEFAX: 619 546 9692
17
18 INFORMATION FOR SEQ ID NO: 2:
19   SOURCE: CHAVALIERI 1993
20   LENGTH: 409 amino acids
21   TYPE: amino acid
22   FEATURE: Unnot
23
24 MODERATELY DELETED
25   SEQUENCE DESCRIPTION: SEQ ID NO: 2:
26   10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95
27   100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180
28   185 190 195 200 205 210 215 220 225 230 235 240 245 250 255 260 265
29   270 275 280 285 290 295 300 305 310 315 320 325 330 335 340 345
30   350 355 360 365 370 375 380 385 390 395 400 405 410 415 420 425
31   430 435 440 445 450 455 460 465 470 475 480 485 490 495 500 505
32   510 515 520 525 530 535 540 545 550 555 560 565 570 575 580 585
33   590 595 600 605 610 615 620 625 630 635 640 645 650 655 660 665
34   670 675 680 685 690 695 700 705 710 715 720 725 730 735 740 745
35   750 755 760 765 770 775 780 785 790 795 800 805 810 815 820 825
36   830 835 840 845 850 855 860 865 870 875 880 885 890 895 900 905
37   910 915 920 925 930 935 940 945 950 955 960 965 970 975 980 985
38   990 995 1000 1005 1010 1015 1020 1025 1030 1035 1040 1045 1050 1055
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40   1130 1135 1140 1145 1150 1155 1160 1165 1170 1175 1180 1185 1190 1195
41   1200 1205 1210 1215 1220 1225 1230 1235 1240 1245 1250 1255 1260 1265
42   1270 1275 1280 1285 1290 1295 1300 1305 1310 1315 1320 1325 1330 1335
43   1340 1345 1350 1355 1360 1365 1370 1375 1380 1385 1390 1395 1400 1405
44   1410 1415 1420 1425 1430 1435 1440 1445 1450 1455 1460 1465 1470 1475
45   1480 1485 1490 1495 1500 1505 1510 1515 1520 1525 1530 1535 1540 1545
46   1550 1555 1560 1565 1570 1575 1580 1585 1590 1595 1600 1605 1610 1615
47   1620 1625 1630 1635 1640 1645 1650 1655 1660 1665 1670 1675 1680 1685
48   1690 1695 1700 1705 1710 1715 1720 1725 1730 1735 1740 1745 1750 1755
49   1760 1765 1770 1775 1780 1785 1790 1795 1800 1805 1810 1815 1820 1825
50   1830 1835 1840 1845 1850 1855 1860 1865 1870 1875 1880 1885 1890 1895
51   1900 1905 1910 1915 1920 1925 1930 1935 1940 1945 1950 1955 1960 1965
52   1970 1975 1980 1985 1990 1995 2000 2005 2010 2015 2020 2025 2030 2035
53   2040 2045 2050 2055 2060 2065 2070 2075 2080 2085 2090 2095 2100 2105
54   2110 2115 2120 2125 2130 2135 2140 2145 2150 2155 2160 2165 2170 2175
55   2180 2185 2190 2195 2200 2205 2210 2215 2220 2225 2230 2235 2240 2245
56   2250 2255 2260 2265 2270 2275 2280 2285 2290 2295 2300 2305 2310 2315
57   2320 2325 2330 2335 2340 2345 2350 2355 2360 2365 2370 2375 2380 2385
58   2390 2395 2400 2405 2410 2415 2420 2425 2430 2435 2440 2445 2450 2455
59   2460 2465 2470 2475 2480 2485 2490 2495 2500 2505 2510 2515 2520 2525
60   2530 2535 2540 2545 2550 2555 2560 2565 2570 2575 2580 2585 2590 2595
61   2600 2605 2610 2615 2620 2625 2630 2635 2640 2645 2650 2655 2660 2665
62   2670 2675 2680 2685 2690 2695 2700 2705 2710 2715 2720 2725 2730 2735
63   2740 2745 2750 2755 2760 2765 2770 2775 2780 2785 2790 2795 2800 2805
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77   3720 3725 3730 3735 3740 3745 3750 3755 3760 3765 3770 3775 3780 3785
78   3790 3795 3800 3805 3810 3815 3820 3825 3830 3835 3840 3845 3850 3855
79   3860 3865 3870 3875 3880 3885 3890 3895 3900 3905 3910 3915 3920 3925
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81   4000 4005 4010 4015 4020 4025 4030 4035 4040 4045 4050 4055 4060 4065
82   4070 4075 4080 4085 4090 4095 4100 4105 4110 4115 4120 4125 4130 4135
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84   4210 4215 4220 4225 4230 4235 4240 4245 4250 4255 4260 4265 4270 4275
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88   4490 4495 4500 4505 4510 4515 4520 4525 4530 4535 4540 4545 4550 4555
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94   4910 4915 4920 4925 4930 4935 4940 4945 4950 4955 4960 4965 4970 4975
95   4980 4985 4990 4995 5000 5005 5010 5015 5020 5025 5030 5035 5040 5045
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98   5190 5195 5200 5205 5210 5215 5220 5225 5230 5235 5240 5245 5250 5255
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117  6520 6525 6530 6535 6540 6545 6550 6555 6560 6565 6570 6575 6580 6585
118  6590 6595 6600 6605 6610 6615 6620 6625 6630 6635 6640 6645 6650 6655
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168  10090 10095 10100 10105 10110 10115 10120 10125 10130 10135 10140 10145 10150 10155
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FILE REFERENCE: F-AR 4528  
CURRENT APPLICATION NUMBER: US/09/014,604  
CURRENT FILING DATE: 2001-04-22  
NUMBER OF SEQ ID NOS: 52  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO: 1  
LENGTH: 462  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-014-604-1

Query Match 13.1%; Score 200; DB 9; Length 462;  
Best Local Similarity 27.0%; Pred. No. 1,66-12;  
Matches 78; Conservative 45; Mismatches 108; Indels 58; Gaps 9;

QY 3 LEEEDHMMREIMDOMKTEOTTFESHKFNRLDVLSSGCLPESLOAVSREFAKMSGV 62  
DB 180 LPEVGELETKVKAHQETFE-----PAL-----QQLKRYTINNSSEQ----- 216  
QY 63 RKDLSLKVSUQKQDINSVWYKPPADSGKEIFSLPHMAMSTYMKFGISFAKVIS 122  
DB 217 -----KVSU-----DIDMD-----KSELSIKCLIKVDFAKQID 247  
QY 123 YKFDLPTEDQSLKGAFFELQURENFVNAE--TGWEGRLSYCLETVAGQQLIL 180  
DB 248 GTTLLIADQILLKAACTLILRLCTRYTPEDQIMTFSGDILNFGMINAGCP-LL 406  
QY 181 EEMLKFNHMKKQIHEEYVIMQALSLSPDRGVYQHRVYQIQBOFATILKSYTCN 240  
DB 307 DLVAFANQLLEPMDAETGLSATCLGDRDLQPDQVMDQLEFLKAKVYVKKR 466  
QY 241 RPOAHRLFLFKIMAMTELKSNAGHQRLLRY-DIHPPATLMQEL 288  
DB 367 RPSRRH-MEPRKMLKRTIDKRSISAKGAKRVITLKMELTMSMPLODM 413

## RESULT 21

US-09-797-727-3  
Sequence 3, Application US/09/97727  
Patent No. US20020077457A1  
GENERAL INFORMATION:  
APPLICANT: The Salk Institute for Biological Studies  
APPLICANT: TAKAKO, Fumimaro  
TITLE OF INVENTION: GAMMA RETINOIC ACID RECEPTOR  
FILE REFERENCE: SALK1150-3  
CURRENT APPLICATION NUMBER: US/09/797,727  
CURRENT FILING DATE: 2001-08-31  
PRIOR APPLICATION NUMBER: US 08/486,325  
PRIOR FILING DATE: 1995-04-07  
PRIOR APPLICATION NUMBER: US 08/100,039  
PRIOR FILING DATE: 1994-07-30  
PRIOR APPLICATION NUMBER: PCT/US90/03564  
PRIOR FILING DATE: 1990-06-22  
PRIOR APPLICATION NUMBER: US 07/370,407  
PRIOR FILING DATE: 1989-06-22  
NUMBER OF SEQ ID NOS: 7  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO: 3  
LENGTH: 462  
TYPE: PRT  
ORGANISM: Human  
FEATURE:  
NAME/KEY: misc feature  
OTHER INFORMATION: Human Retinoic Acid Receptor-alpha (hRAR-alpha)  
US-09-797-727-3

Query Match 13.1%; Score 200; DB 10; Length 462;  
Best Local Similarity 27.0%; Pred. No. 1,66-12;  
Matches 78; Conservative 45; Mismatches 108; Indels 58; Gaps 9;  
QY 3 LEEEDHMMREIMDOMKTEOTTFESHKFNRLDVLSSGCLPESLOAVSREFAKMSGV 62  
DB 180 LPEVGELETKVKAHQETFE-----PAL-----QQLKRYTINNSSEQ----- 216

QY 63 RKDLSLKVSUQKQDINSVWYKPPADSGKEIFSLPHMAMSTYMKFGISFAKVIS 122  
DB 217 -----KVSU-----DIDMD-----KSELSIKCLIKVDFAKQID 247  
QY 123 YKFDLPTEDQSLKGAFFELQURENFVNAE--TGWEGRLSYCLETVAGQQLIL 180  
DB 248 GTTLLIADQILLKAACTLILRLCTRYTPEDQIMTFSGDILNFGMINAGCP-LL 406  
QY 181 EEMLKFNHMKKQIHEEYVIMQALSLSPDRGVYQHRVYQIQBOFATILKSYTCN 240  
DB 307 DLVAFANQLLEPMDAETGLSATCLGDRDLQPDQVMDQLEFLKAKVYVKKR 466  
QY 241 RPOAHRLFLFKIMAMTELKSNAGHQRLLRY-DIHPPATLMQEL 288  
DB 367 RPSRRH-MEPRKMLKRTIDKRSISAKGAKRVITLKMELTMSMPLODM 413

## RESULT 22

US-09-921-650-23  
Sequence 24, Application US/09/921650  
Publication No. US20010022315A1  
GENERAL INFORMATION:  
APPLICANT: Bojard, Hermann  
TITLE OF INVENTION: Tetacycline-Inducible Transcriptional  
Activator Fusion Proteins  
NUMBER OF SEQIDNOS: 37  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: JAVIVE & COCKFIELD  
STREET: 28 State Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1875  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: ASCII Text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/921,650  
FILING DATE: 03-Aug-2001  
CLASSIFICATION: unknown  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 09/912,650  
FILING DATE: 2001-08-03  
APPLICATION NUMBER: US 08/485,978  
FILING DATE: 07-JUN-1995  
APPLICATION NUMBER: US 08/483,754  
FILING DATE: 03-FEB-1995  
APPLICATION NUMBER: US 08/275,876  
FILING DATE: 15-JULY-1994  
APPLICATION NUMBER: US 08/270,637  
FILING DATE: 01-JULY-1994  
APPLICATION NUMBER: US 08/260,452  
FILING DATE: 14-JUNE-1994  
APPLICATION NUMBER: US 08/076,327  
FILING DATE: 14-JUNE-1994  
APPLICATION NUMBER: US 08/076,726  
FILING DATE: 14-JUNE-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: BOJARD, GUILLOT A., JR.  
REGISTRATION NUMBER: 31,503  
REFERENCE/DOCKET NUMBER: 091-00976CINV  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617)227-7400  
TELEFAX: (617)742-4214  
INFORMATION PRT SEQ ID NO: 24;  
SEQUENCE CHARACTERISTICS:  
LENGTH: 272 amino acids  
TYPE: amino acid  
TOPOLOGY: linear









Db 124 TIVSFRKHITTELTIVLIVFVAKGHPATKIPEDQITILKACSSVMMKMKARYDHS 384  
 Oy 149 -NIVENAFGIMWGGDSCYCLEIFAGPPOULLFPMKPHYMKKIOUHEFEVYLMATIS 207  
 Db 484 SDSTFEFANNKSYT--KDSYKMAAGMADN-- -TEDILHFCROMSKKVDNVEYALITIV 406  
 Oy 208 LFSIDRKGIVLGHVVDOLQFQFATLEKSYTEGFR--FUPAHKFLFKIMMTELRSTINA 265  
 Db 437 LFS-DRGRLKACQIVFAIGSYIOLIKYTI-LNRHCGDSMSLVYAKLLSTILTELRIDAN 494  
 Oy 266 QHTQF-----LIRIDHIFPAFIPYMOELFGLI 292  
 Db 495 QNAEMCFSLKLNKRLKFLFELIWDHAI--PPVSQSHLOIT 534

## RESULT 40

US-09-042-488H-9  
 ? Sequence 9, Application US/09042488H  
 ? Patent No. US2002017564A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: EVANS, RONALD M.  
 ? APPLICANT: NO, DAVID  
 ? APPLICANT: SAW, ENRIQUE  
 ? TITLE OF INVENTION: METHODS FOR MODULATING EXPRESSION OF EXOGENOUS GENES IN  
 ? TITLE OF INVENTION: MAMMALIAN SYSTEMS, AND PRODUCTS RELATED THERETO  
 ? FILE REFERENCE: SALR1520-2  
 ? CURRENT APPLICATION NUMBER: US/09/042.488H  
 ? CURRENT FILING DATE: 1998-03-16  
 ? PRIOR APPLICATION NUMBER: 08/974,530  
 ? PRIOR FILING DATE: 1997-11-19  
 ? PRIOR APPLICATION NUMBER: 08/628,830  
 ? PRIOR FILING DATE: 1996-04-05  
 ? NUMBER OF SEQ ID NOS: 18  
 ? SOFTWARE: Patent In Ver. 2.1  
 ? SEQ ID NO 9  
 ? LENGTH: 1041  
 ? TYPE: PRT  
 ? ORGANISM: Artificial Sequence  
 ? FEATURE:  
 ? OTHER INFORMATION: Description of Artificial Sequence: Recombinant  
 ? OTHER INFORMATION: CDS  
 ? US-09-042-488H-9

Query Match 12.98; Score 198; DB 9; Length 1041;

Best Local Similarity 24.98; Pred. No. 8.5e-12;

Matches 85; Conservative 57; Mismatches 15; Indels 64; Gaps 12;

Oy 5 EEOHMMIRELMQMKTFDTFSHKRNPRLPVLSG-----CELPESLQ 49  
 Db 500 ENQCAMKREKKAQKREKIMTSSQHGNGSLASGGQGFYKKEILDMTCFPOHAT 559  
 Oy 50 APSFEFAKMSQVKKKGLSKVLSQJLKGEDGSV---NYKPTAISGKEIFS----- 98  
 Db 560 IPLLDELILACQAKNIPSLYV-QLAVLYKLIWYDQYDQSDSEDLRIKMSIDENESQ 618  
 Oy 99 ---LIPHMADNSTYMEKGLISFAKVISYFRLDLEDOISLKGAFELQKRF----- 148  
 Db 619 TIVSFRKHITTELTIVLIVFVAKGHPATKIPEDQITILKACSSVMMKMKARYDHS 678  
 Oy 149 -NIVENAFGIMWGGDSCYCLEIFAGPPOULLFPMKPHYMKKIOUHEFEVYLMATIS 207  
 Db 679 SDSTFEFANNKSYT--KDSYKMAAGMADN-- -TEDILHFCROMSKKVDNVEYALITIV 741  
 Oy 208 LFSIDRKGIVLGHVVDOLQFQFATLEKSYTEGFR--FUPAHKFLFKIMMTELRSTINA 265  
 Db 742 LFS-DRGRLKACQIVFAIGSYIOLIKYTI-LNRHCGDSMSLVYAKLLSTILTELRIDAN 789  
 Oy 266 QHTQF-----LIRIDHIFPAFIPYMOELFGLI 292  
 Db 790 QNAEMCFSLKLNKRLKFLFELIWDHAI--PPVSQSHLOIT 829

## RESULT 41

US-09-965-703-20  
 ? Sequence 20, Application US/09965703  
 ? Patent No. US20020119521A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Boon and Haas Company  
 ? APPLICANT: Pallas, Subba Reddy  
 ? APPLICANT: Kapitskaya, Marianna Zilov [evna  
 ? APPLICANT: Cress, Dean Elynn  
 ? TITLE OF INVENTION: No. US20020119521A1(a) Endosome Inceptor Based Inducible Gene E  
 ? FILE REFERENCE: A010208  
 ? CURRENT APPLICATION NUMBER: US/09/965,703  
 ? CURRENT FILING DATE: 2001-09-26  
 ? PRIOR APPLICATION NUMBER: 60/191,455  
 ? PRIOR FILING DATE: 2000-03-22  
 ? PRIOR APPLICATION NUMBER: 60/269,799  
 ? PRIOR FILING DATE: 2001-02-20  
 ? PRIOR APPLICATION NUMBER: PCT/US01/09050  
 ? PRIOR FILING DATE: 2001-03-21  
 ? NUMBER OF SEQ ID NOS: 76  
 ? SOFTWARE: Patent In version 3.1  
 ? SEQ ID NO 20  
 ? LENGTH: 423  
 ? TYPE: PRT  
 ? ORGANISM: Drosophila melanogaster  
 ? FEATURE:  
 ? NAME/KEY: misc feature  
 ? OTHER INFORMATION: No. US20020119521A1(a) Sequence  
 ? US-09-965-703-20

Query Match 12.78; Score 194.5; DB 10; Length 423;

Best Local Similarity 25.38; Pred. No. 4.0e-12;

Matches 77; Conservative 55; Mismatches 12; Indels 49; Gaps 10;

Oy 5 EEOHMMIRELMQMKTFDTFSHKRNPRLPVLSG-----CELPESLQ 49  
 Db 8 ENQCAMKREKKAQKREKIMTSSQHGNGSLASGGQGFYKKEILDMTCFPOHAT 67  
 Oy 50 APSFEFAKMSQVKKKGLSKVLSQJLKGEDGSV---NYKPTAISGKEIFS----- 98  
 Db 68 IPLLDELILACQAKNIPSLYV-QLAVLYKLIWYDQYDQSDSEDLRIKMSIDENESQ 126  
 Oy 99 ---LIPHMADNSTYMEKGLISFAKVISYFRLDLEDOISLKGAFELQKRF----- 148  
 Db 127 TIVSFRKHITTELTIVLIVFVAKGHPATKIPEDQITILKACSSVMMKMKARYDHS 186  
 Oy 149 -NIVENAFGIMWGGDSCYCLEIFAGPPOULLFPMKPHYMKKIOUHEFEVYLMATIS 207  
 Db 187 SDSTFEFANNKSYT--KDSYKMAAGMADN-- -TEDILHFCROMSKKVDNVEYALITIV 249  
 Oy 208 LFSIDRKGIVLGHVVDOLQFQFATLEKSYTEGFR--FUPAHKFLFKIMMTELRSTINA 265  
 Db 240 LFS-DRGRLKACQIVFAIGSYIOLIKYTI-LNRHCGDSMSLVYAKLLSTILTELRIDAN 297  
 Oy 266 QHTQF-----LIRIDHIFPAFIPYMOELFGLI 292  
 Db 298 QNAEMCFSLKLNKRLKFLFELIWDHAI--PPVSQSHLOIT 321  
 RESULT 42  
 US-09-931-007A 1  
 ? Sequence 1, Application US/09931007A  
 ? Patent No. US20020166132A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Abbotts Pharma S.A.  
 ? TITLE OF INVENTION: SYSTEM FOR REGULATING IN VIVO THE EXPRESSION OF A TRANSGENE BY  
 ? FILE REFERENCE: 04606.0612  
 ? CURRENT APPLICATION NUMBER: US/09/931,007A  
 ? CURRENT FILING DATE: 2001-08-17  
 ? PRIOR APPLICATION NUMBER: FR 00/10740  
 ? PRIOR FILING DATE: 2000-08-18  
 ? PRIOR APPLICATION NUMBER: US 60/249,246  
 ? PRIOR FILING DATE: 2000-10-11



```

RESULT 35
US 09 895-840-2
? Sequence 2, Application US/09895840
? Patent No. US2002/10818A1
? GENERAL INFORMATION:
? APPLICANT: Quantar, Catherine
? TITLE OF INVENTION: Transgenic mice containing progammata gene
? FILE REFERENCE: R-409
? CURRENT APPLICATION NUMBER: US/09/895,840
? PRIOR FILING DATE: 2001-06-28
? PRIOR FILING DATE: 2000-06-29
? PRIOR APPLICATION NUMBER: US 60/422,661
? PRIOR FILING DATE: 2000-07-27
? NUMBER OF SEQ ID NOS: 4
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 2
? LENGTH: 516
? TYPE: PRT
? ORGNISM: Mus musculus
US 09 895-840-2

Query Match 12.48; Score 189; Dh 10; Length 516;
Best local similarity 27.08; Pred. No. 2,70-11;
Matches 66; Conservative 43; Mismatches 105; Indels 60; Gaps 6;

CY 64 KDLGSLKVSILQKRGD-----GWNWKKPPADSGKRFIFSLPRIMADKSTYMERGLISF 117
DB 273 QWVCSFRETQLEKLELRCORTNLSRESEVSYGRKSMWEMERCAHHLFAIYVYVF 332
CY 118 AKVISYFDLPLEDDTSLKGAPELCQLENTVNAFTGWEKRLSYLEDTAG-- 174
DB 333 AKRLESGHEICQNDQILLTAVAMEVLVRCGRVANNHT-----VFEGKRGVGL 385
CY 175 FQGL----LLEMLKFTNRLKLOIHEEYVYMQAIIQLSPDRPVLYQRYVYGLGROFA 240
DB 386 FRALGCELSISIFDSHFLSALCSDEEIALYTLVLYNANRPLQERKRVHEHLYNLE 445
CY 241 TLKSYETFNKQGFARLEFLKIMALLFELRSINQHTQRLRIQDITFEAT-- 314
DB 446 LAFHHH--CK---THRGILLAKILPPKIKLRSLSQGHYIKLQIPQHLHTVYGAAPFLY 500
CY 286 GLEF 289
DB 501 KELE 504

RESULT 36
US 09 765-111A-2
? Sequence 2, Application US/09765111A
? Patent No. US2002/0106796A1
? GENERAL INFORMATION:
? APPLICANT: Fletcher, Jonathan A.
? APPLICANT: Kroll, Todd G.
? TITLE OF INVENTION: PAX8-FLAGGAMA NUCLEIC ACID MOLECULES
? TITLE OF INVENTION: AND POLYPEPTIDES AND USES THEREOF
? FILE REFERENCE: BOB01/77196/ERP/MAT
? CURRENT APPLICATION NUMBER: US/09/765,111A
? CURRENT FILING DATE: 2001-01-18
? PRIOR FILING DATE: 2000-01-20
? PRIOR FILING DATE: 2000-01-20
? PRIOR APPLICATION NUMBER: US 60/225,079
? PRIOR FILING DATE: 2000-08-14
? NUMBER OF SEQ ID NOS: 47
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 2
? LENGTH: 777
? TYPE: PRT
? ORGNISM: Homo Sapiens
US 09 765-111A-2

```

Query Match	12.4%	Score 189	DB 10	Length 777
Post Local Similarity 22.6%				
Matches 70	Conservative 55	Mismatches 109	Indels 76	Gaps 15
QY	8	KKMLHMLMADMKIPLDTFSHKRNRLQGVLSNGEELPESLQAPSR	EEAKRNSV	62
DB	512	KALAKHILSVYSIKRPELT-----	KAKAKALLIKKIKLQKSTEV	548
QY	63	KKLIQSLKVSIOIQRHDSQVNNYKRPALNSGKEELTSLPHMAMSYMRKQ		115
DB	549	LYDMNSL-----MMGEQIKRKPIPLQAPDSKSV	AKRTQVQFQSVAV	593
QY	114	ITSEPAVSYEPRIPIHIOISLKGAFFQGLRNTVFN	AEITIMDQGIS	165
DB	594	QETTVASISPEFVNIDINQVTLIKYVGHITTYMIAIMKQGVLSNGEELPESL	582	
QY	166	YGLDPAQSPQDILLEPMKREPMKRIQIHEEYVIMQASISFSDRGVQGHVAVD	225	
DB	654	KSLRQVDFP-----MEPEKEFAVKNALLETQSLATELAVIILSDRGILNKKITET	709	
QY	226	QGFAMILKSYIEKNSHQAHPLEFKIMAMLEKSNACGLIKLQV-----PIHP	279	
DB	710	QNLQALELQIKIMHPSSQ-----LEAKILOKRIPIKOIVFHVQILQVTKIKETIMSH	766	
QY	280	FATPMQELF	289	
DB	767	PLQELY	775	
RESULT 47				
US-09-765-111A-23				
Sequence 23	Application US-09766111A			
Patent No. US20020106796A1				
GENERAL INFORMATION:				
APPLICANT: Fletcher, Jonathan A.				
APPLICANT: Kroll, Todd G.				
TITLE OF INVENTION: PAXB-PBPAGAMA NOCLEIC ACID MOLECULES				
TITLE OF INVENTION: AND POLYPEPTIDS AND USES THEREOF				
FILE REFERENCE: 60601/77196/ERP/MAT				
CURRENT APPLICATION NUMBER: 05/09/765,111A				
CURRENT FILING DATE: 2001-01-18				
PRIOR APPLICATION NUMBER: US 60/177,109				
PRIOR FILING DATE: 2000-01-20				
PRIOR APPLICATION NUMBER: US 60/225,079				
PRIOR FILING DATE: 2000-08-14				
NUMBER OF SEQ ID NOS: 47				
SOFTWARE: PasteSeq for Windows Version 3.0				
SEQ ID NO 23				
LENGTH: 811				
TYPE: PRT				
ORGANISM: Homo Sapiens				
US-09-765-111A-23				
Query Match	12.4%	Score 189	DB 10	Length 811
Post Local Similarity 22.6%				
Matches 70	Conservative 55	Mismatches 109	Indels 76	Gaps 15
QY	8	KKMLHMLMADMKIPLDTFSHKRNRLQGVLSNGEELPESLQAPSR	EEAKRNSV	62
DB	546	KALAKHILSVYSIKRPELT-----	KAKAKALLIKKIKLQKSTEV	582
QY	64	KKLIQSLKVSIOIQRHDSQVNNYKRPALNSGKEELTSLPHMAMSYMRKQ		115
DB	584	LYDMNSL-----MMGEQIKRKPIPLQAPDSKSV	AKRTQVQFQSVAV	627
QY	114	ITSEPAVSYEPRIPIHIOISLKGAFFQGLRNTVFN	AEITIMDQGIS	165
DB	628	QETTVASISPEFVNIDINQVTLIKYVGHITTYMIAIMKQGVLSNGEELPESL	687	
QY	166	YGLDPAQSPQDILLEPMKREPMKRIQIHEEYVIMQASISFSDRGVQGHVAVD	225	
DB	688	KSLRQVDFP-----MEPEKEFAVKNALLETQSLATELAVIILSDRGILNKKITET	743	

[illegible]

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1 CURRENT APPLICANT NUMBER: US/09/765,111A
2
3 CURRENT FILING DATE: 2001-01-18
4
5 PRIOR APPLICATION NUMBER: US 60/177,109
6
7 PRIOR FILING DATE: 2000-01-20
8
9 PRIOR APPLICATION NUMBER: US 60/225,079
10
11 PRIOR FILING DATE: 2000-08-14
12
13 NUMBER OF SEQ ID NOS: 47
14
15 SOFTWARE: FASTSEQ FOR WINDOWS VERSION 3.0
16
17 SEQ ID NO: 6
18
19 LENGTH: 874
20
21 TYPE: CDS
22
23 ORGANISM: Homo Sapiens
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25 US 09 765 111A G
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Query Match      1238; Score 188.5; Db 10; Length 445;
Best Local Similarity 26.38; Pred. No. 2,5e-11;
Matches 64; Conservative 48; Mismatches 86; Indels 45; Gaps 9;

QY 85 YKPPADSGGKEIFS-----LLEPMADSTYMFKGLISFAKVISYFROLPLEDQI 133
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1 YQPSFEDLRKIMSQPDENPSQTIIVSPRHTEITILTVOGLVEFAKGIFAFTKIPEDQI 60
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 134 SLKGAFAELTOLFE-----NTVFNAFTGTWENGRISVCLFDYAGGEOQLLEPMK 165
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 61 TLKAKNSFEVYMLLMARKYDHSISDITFANNKSYF--RDSYKMAQMAQN-----IEDILH 113
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 186 FHYMLKKIQLEHPEYVLMQALSLSPDRPGVLAGHVVYDQIQFOFALTKSYIPVNR--PQ 243
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 114 FCPQMFPMKYUNVEYALLTAIVIPS--QRPIKKAQIVEALQSYIPTLRIYI--LNKRD 171
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 244 PAHRTFLTKIMAMLELKSTINADITQR-----LAKIQDIHPATTLNCELF 289
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 172 SMSIVFYAKLISLILFKRTLAGNMAEMGFSLKLNKRLPKRIEELWVIAI--PFSVDSHL 233
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 290 GIT 292
      : :
Db 231 QIT 233

```

Search completed: Apr 11 15: 2003, 11:43:41  
 Job time : 20,5073 secs



SeqCore version 5.1.4 p5\_4578  
Copyright (c) 1993 2003 Compugen Ltd.

# OM protein - protein search, using sw model

Run on: April 15, 2003, 11:18:57 : Search time 10.2459 Seconds  
(without alignments) 844.274 Million cell updates/sec

Title: US-09-276-935D-14\_COPY\_141\_434

Perfect score: 1529

Sequence: 1 USGTFGRMMIRELMQMK.....QDHPATPLMGEFDTGS 294

Scoring table:

blastn62  
Gapop 10.0, Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum hit seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Issued\_Patents\_AA:\*  
1: /cgm2-6/p/odata/1/1aa/5A.COMB.pep:\*  
2: /cgm2-6/p/odata/1/1aa/5B.COMB.pep:\*  
3: /cgm2-6/p/odata/1/1aa/6A.COMB.pep:\*  
4: /cgm2-6/p/odata/1/1aa/6B.COMB.pep:\*  
5: /cgm2-6/p/odata/1/1aa/PCITUS.COMB.pep:\*  
6: /cgm2-6/p/odata/1/1aa/Backlist.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length DB	Hit	Description
1	592	48.7	486	4	US-08-875-082-2 Sequence 2, Appl 1
2	479.5	41.4	348	1	US-08-459-489-10 Sequence 10, Appl 1
3	479.5	41.4	348	1	US-08-458-686-10 Sequence 10, Appl 1
4	479.5	41.4	348	1	US-07-843-350G-10 Sequence 10, Appl 1
5	478	41.4	467	1	US-07-737-736A-4 Sequence 4, Appl 1
6	470	40.7	427	4	US-08-764-870-11 Sequence 11, Appl 1
7	245.5	16.1	446	2	US-08-472-652-3 Sequence 3, Appl 1
8	245.5	16.1	446	5	PCT-US95-16311-3 Sequence 3, Appl 1
9	244.5	15.9	446	4	US-08-776-844-2 Sequence 2, Appl 1
10	244.5	15.9	461	1	US-08-330-518-2 Sequence 2, Appl 1
11	244.5	15.9	461	1	US-08-340-283-2 Sequence 2, Appl 1
12	244.5	15.9	461	2	US-08-646-248-2 Sequence 2, Appl 1
13	244.5	15.9	461	5	PCT-US95-13924-2 Sequence 2, Appl 1
14	244.5	15.9	461	5	PCT-US95-13931-2 Sequence 2, Appl 1
15	242.5	15.9	461	1	US-08-342-411A-2 Sequence 2, Appl 1
16	241.5	15.8	472	1	US-08-456-641-2 Sequence 2, Appl 1
17	240.5	15.7	443	1	US-08-342-411A-4 Sequence 4, Appl 1
18	239	15.6	440	1	US-08-333-358-8 Sequence 8, Appl 1
19	239	15.6	440	1	US-08-463-694-8 Sequence 8, Appl 1
20	239	15.6	440	1	US-08-694-501-8 Sequence 8, Appl 1
21	239	15.6	443	1	US-08-373-945-1 Sequence 1, Appl 1
22	236	15.4	443	2	US-08-456-120-2 Sequence 2, Appl 1
23	236	15.4	443	5	PCT-US94-07266-2 Sequence 2, Appl 1
24	234.5	15.3	451	2	US-08-372-652-2 Sequence 2, Appl 1
25	234.5	15.3	451	5	PCT-US94-16311-2 Sequence 2, Appl 1
26	234.5	15.3	484	2	US-08-372-652-1 Sequence 1, Appl 1
27	234.5	15.3	484	5	PCT-US95-16311-1 Sequence 1, Appl 1

28	231.5	15.1	469	3	US-08-372-183-2 Sequence 2, Appl 1
29	231.5	15.1	469	4	US-09-469-721-2 Sequence 2, Appl 1
30	231.5	15.1	469	4	US-09-696-443-2 Sequence 2, Appl 1
31	231.5	15.1	469	5	PCT-US95-17024-2 Sequence 2, Appl 1
32	228	14.9	461	4	US-08-764-870-3 Sequence 4, Appl 1
33	228	14.9	461	4	US-08-980-115-3 Sequence 4, Appl 1
34	219	14.3	455	6	5223606-4 Patent No. 5223606
35	210	13.7	674	4	US-08-653-448A-14 Sequence 14, Appl 1
36	206.5	13.5	410	4	US-08-764-870-2 Sequence 2, Appl 1
37	206.5	13.5	410	4	US-08-980-115-2 Sequence 2, Appl 1
38	206.5	13.5	410	6	5438126-2 Patent No. 5438126
39	202.5	13.2	410	4	US-08-764-870-1 Sequence 1, Appl 1
40	202.5	13.2	410	4	US-08-980-115-1 Sequence 1, Appl 1
41	201	13.1	468	6	5223606-4 Patent No. 5223606
42	201	13.1	448	6	5223606-2 Patent No. 5223606
43	200	13.1	462	2	US-08-592-183-2 Sequence 2, Appl 1
44	200	13.1	462	2	US-08-095-726B-4 Sequence 4, Appl 1
45	200	13.1	462	5	PCT-US92-02320A-4 Sequence 4, Appl 1

## ALIGNMENTS

RESULT 1  
US-08-875-082-2  
Sequence 2, Application US/08875082  
Patent No. 6391847  
GENERAL INFORMATION:  
APPLICANT: Evans, Ronald M.  
APPLICANT: Alimberg, Bruce  
APPLICANT: Onosono, Kazuhiko  
TITLE OF INVENTION: A NOVEL RXR-DEPENDENT SIGNALING PATHWAY  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Gray Cary Ware & Freudenthal, LLP  
STREET: 4365 Executive Dr., Suite 1600  
CITY: San Diego  
STATE: CA  
COUNTRY: USA  
ZIP: 92121  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM pc compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/875,082  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/474,445  
FILING DATE: 17 JAN 1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Heller, Stephen E.  
REGISTRATION NUMBER: 33,192  
REFERENCE/EXCERPT NUMBER: 141 9887  
TELEPHONE: 619-677-1465  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 486 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-875-082-2  
Query Match 48.7% Score 592; DB 4; Length 486;  
Best local similarity 41.8% Pred. No. 1.1e-5;  
Matches 127; Conservative 46; Mismatches 71; Indels 40; Gaps 6;  
QY 3 LIEFGRRMIRELMQMKTFDTSHKKNRFLQVLSNCTLPSPDAVSNRFAKNSGV 62











[illegible]

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1 PRESENT TO
2 DE 08 300 519 2
3 Sequence #, Application US/08340116
4 Patent No. 6007967
5 GENERAL INFORMATION:
6 APPLICANT: Festano, Brian
7 APPLICANT: Holmway, M. Kathleen
8 APPLICANT: Rodan, John
9 APPLICANT: Schmidt, Aaron
10 APPLICANT: Vogel, Robert
11 TITLE OF INVENTION: USE OF RECEPTOR POTENTIALS
12 NUMBER OF SEQUENCES: 5
13 CORRESPONDENT ADDRESS:
14 ADDRESSEE: Metc & Co., Inc.
15 STREET: 126 East Lincoln Avenue
16 CITY: Rahway
17 STATE: New Jersey
18 COUNTRY: US
19 ZIP: 07065-0907
20 COMPUTER PLATABLE FORM:
21 MEDIA TYPE: floppy disk
22 COMMENT: IBM pc compatible
23 OPERATING SYSTEM: PC DOS/MS DOS
24 SOFTWARE: format to release #1.0, Version #1.25
25 COMPUTER APPLICATION DATA:
26 APPLICATION NUMBER: US/08340116
27 FILING DATE:
28 CLASSIFICATION: 4A5
29 ATTORNEY/AGENT INFORMATION:
30 NAME: Rodan, Catherine A.
31 REPRESENTATION NUMBER: 46,502
32 REFERENCE/WORK NUMBER: 19116
33 TELECOMMUNICATION INFORMATION:
34 TELEPHONE: (908) 594-4284
35 TELEFAX: (908) 594-4720
36 INFORMATION FOR SEQ ID NO: 2:
37 SEQUENCE CHARACTERISTICS:
38 LENGTH: 461 amino acids
39 TYPE: amino acid
40 STRANDEDNESS: single
41 topology: linear
42 molecule type: polypep
43 HYDROPHATIC: No
44 ANTI STRIKE: No
45 DE 08 300 519 2

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[illegible]

RESOLUTION 1  
US-08 430,283,2  
Sequence 2: Application for US-08 430,283  
Patent No. 6079518  
GENERAL INFORMATION:  
APPLICANT: Eli Lilly and Company  
APPLICANT: Eli Lilly & Co., Inc.  
APPLICANT: Rodan, Chabon  
APPLICANT: Rodan, Chabon  
APPLICANT: Rodan, Chabon  
APPLICANT: Schmidt, Azriel  
APPLICANT: Vogel, Robert  
TITLE OF INVENTION: METHOD FOR FINDING RECEPTOR POTENTIALS  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Motek & Co., Inc.  
STREET: 148 East Lincoln Avenue  
CITY: Rahway  
STATE: New Jersey  
COUNTRY: US  
ZITE: 07065 0907  
EXPIRATION REMAINDER FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: pc DOS/MS-DOS  
SOFTWARE: Patcom in Biotech v1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US-08 430,283  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Rodan, Chabon A.  
REGISTRATION NUMBER: 36,502  
REFERENCE/PUBLICATION NUMBER: 1947  
ELECTRONIC INFORMATION:  
TELEPHONE: (908) 594 4283  
TELEFAX: (908) 594 4720  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 461 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
Topology: linear  
MOLECULE TYPE: peptide  
HYDROLYTIC: no  
ANTI-SENSE: no  
US-08 430,283,2

Quantity	Symbol	Units
Grainy Match	$1^{10}, 9^{18}$	Secs
Beet (local) Stimulant	$26, 08$	Prod. No.
Matchbox	$17$	Matchboxes
	$5^{10}$	Models
	$10$	Cups

Category	Match	Similarity	Prod. No.	Mismatches	Length
1	15, 906	86.94	6, 505	10	461
2	26, 008	77.2	6, 505	10	461
3	26, 008	77.2	6, 505	10	461
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58	26, 008	77.2	6, 505	10	461
59	26, 008	77.2	6, 505	10	461
60	26, 008	77.2	6, 505	10	461
61	26				





db 240 GFLDGRHQAIALKASTLEIMLETARVNHET---ECITFKDPYTSKDPHRAQOV 346  
 QY 178 LLEPMKLFHMKKJOLHEEYVMAISLESDHROVLOHRAVDQLOQOPATITKSY1 237  
 db 347 EFINITFEFSAMKRIQJLUDAEYALTAINTESADRAVNOVQGVAEALQVYVEALLSY1 406  
 QY 248 EGNHQAHEFLFKIMAMLEIKSTINQOTQRL--LRIGDIHFAETPLMGELEF1 291  
 db 407 KKKRQOQDLR--PFRMLKRLVSLKLSVSHSQVAFALRLQD--KKIPPLLSLWIV 458

RESULT 16  
 US-08-496-631-2  
 ? Sequence 2, Application US/08496631  
 ? Patent No. 5728548  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Korman, Michael  
 ? TITLE OF INVENTION: STEROID RECEPTOR RRL  
 ? NUMBER OF SEQUENCES: 7  
 ? CORRESPONDENCE ADDRESS:  
 ? ADDRESSEE: Genetics Institute, Inc.  
 ? STREET: 87 Cambridgepark Drive  
 ? CITY: Cambridge  
 ? STATE: Massachusetts  
 ? COUNTRY: U.S.A.  
 ? ZIP: 02140  
 ? COMPUTER READABLE FORM:  
 ? MEDIUM TYPE: Floppy disk  
 ? COMPUTER: IBM pc compatible  
 ? OPERATING SYSTEM: PC-POS/MS-DOS  
 ? SOFTWARE: Patout In Release #1.0, Version #1.25  
 ? CURRENT APPLICATION DATA:  
 ? APPLICATION NUMBER: US/08/496,631  
 ? FILING DATE:  
 ? CLASSIFICATION: 445  
 ? ATTORNEY/AGENT INFORMATION:  
 ? NAME: Brown, Scott A.  
 ? REGISTRATION NUMBER: 32,724  
 ? REFERENCE/Docket NUMBER: 015248  
 ? TELECOMMUNICATION INFORMATION:  
 ? TELEPHONE: (617) 498-8224  
 ? TELEFAX: (617) 876-9851  
 ? INFORMATION FOR SEQ ID NO: 2:  
 ? SEQUENCE CHARACTERISTICS:  
 ? LENGTH: 472 amino acids  
 ? TYPE: amino acid  
 ? TOPOLOGY: linear  
 ? MOLECULE TYPE: protein  
 ? US-08-496-631-2

Query Match 15.8% Score 241.5; DB 1; Length 472;  
 Best Local Similarity 31.9% Prod. No. 1,1e-17;  
 Matches 65; Conservative 44; Mismatches 82; Indels 13; Gaps 7;  
 QY 94 KEIFELLH---MAQSYMEKGISFAKVSFEDPTEIQLSLKCAVEFLNLENT 150  
 db 275 KEEFAEENELLITPMALNIHQVLEETKRLGVOFLDHQDIALKSAVAMLRSAE 334  
 QY 151 VNAETGWEYGRISYLDIADGQDQLJLMLKFAHMKKIQHEEYVMAISLEPS 210  
 db 345 LFNKRLSHSHDLFEERLNS GIDSEYITPEFSYKSGHEKMKIGEEVALTAVITS 492  
 QY 211 PIRPVLQHRVVDLOQOPATITKSYTCGNRQ--PAHFLTKIMAMLEIKSTINACHQ 269  
 db 493 PIRPVLQHRVVDLOQOPATITKSYTCGNRQ--PAHFLTKIMAMLEIKSTINACHQ 449  
 QY 270 RLK--RIQDIHFAETPLMGELEF1 291  
 db 450 MMSKRVND--EKF--TFLGTEIMDV 471

RESULT 17  
 US-08-342-411A-4

? Sequence 4, Application US/08342411A  
 ? Patent No. 5639616  
 ? GENERAL INFORMATION:  
 ? APPLICANT: LIAO, Shouming  
 ? TITLE OF INVENTION: ORIGINOUS NUCLEAR RECEPTOR  
 ? NUMBER OF SEQUENCES: 38  
 ? CORRESPONDENCE ADDRESS:  
 ? ADDRESSEE: Arnold, White & Burke  
 ? STREET: P.O. Box 4433  
 ? CITY: Houston  
 ? STATE: TX  
 ? COUNTRY: USA  
 ? ZIP: 77210-4433  
 ? COMPUTER READABLE FORM:  
 ? MEDIUM TYPE: Floppy disk  
 ? COMPUTER: IBM pc compatible  
 ? OPERATING SYSTEM: PC-POS/MS-DOS  
 ? SOFTWARE: Patout In Release #1.0, Version #1.40  
 ? CURRENT APPLICATION DATA:  
 ? APPLICATION NUMBER: US/08/342,411A  
 ? FILING DATE: 18-Nov-1994  
 ? CLASSIFICATION: 445  
 ? ATTORNEY/AGENT INFORMATION:  
 ? NAME: KITCHELL, BARBARA S.  
 ? REGISTRATION NUMBER: 33,728  
 ? REFERENCE/Docket NUMBER: AR0154  
 ? TELECOMMUNICATION INFORMATION:  
 ? TELEPHONE: (512) 418-4000  
 ? TELEFAX: (713) 789-2679  
 ? INFORMATION FOR SEQ ID NO: 4:  
 ? SEQUENCE CHARACTERISTICS:  
 ? LENGTH: 443 amino acids  
 ? TYPE: amino acid  
 ? TOPOLOGY: linear  
 ? US-08-342-411A-4

Query Match 15.7% Score 240.5; DB 1; Length 443;  
 Best Local Similarity 25.7% Prod. No. 1,4e-17;  
 Matches 76; Conservative 55; Mismatches 102; Indels 63; Gaps 10;  
 QY 3 LLEGRMIRLEMAQKTDFTPSHKNFRLPGVSSGRLPNSIAPKFEAKKSV 62  
 db 202 LTAQELMTQQLVAVQVQCKRSPS-----DQPKVTPW 245  
 QY 63 KRLDLSKVSIGLGRKSVNWKIPADSGKELEFSLFMMAQSYMEKGISFAKVIS 124  
 db 246 -----LADP-----FQSRDAKQGFH--HFLDIALSVQELVFAKQVP 272  
 QY 123 YERQPIHQI SLKCAAEFLQVLEFNVNAELGWE?--GRISY-LEH-IAQHPQ 177  
 db 273 GFLDGRHQAIALKASTLEIMLETARVNHET--ECITFKDPYTSKDPHRAQOV 329  
 QY 178 LLEPMKLFHMKKJOLHEEYVMAISLESDHROVLOHRAVDQLOQOPATITKSY1 237  
 db 330 EFINITFEFSAMKRIQJLUDAEYALTAINTESADRAVNOVQGVAEALQVYVEALLSY1 489  
 QY 248 EGNHQAHEFLFKIMAMLEIKSTINQOTQRL--LRIGDIHFAETPLMGELEF1 291  
 db 407 KKKRQOQDLR--PFRMLKRLVSLKLSVSHSQVAFALRLQD--KKIPPLLSLWIV 441  
 RESULT 18  
 US-08-343-458-B  
 ? Sequence 8, Application US/08343458  
 ? Patent No. 5571596  
 ? GENERAL INFORMATION:  
 ? APPLICANT: EVANS Ph.D., RONALD M.  
 ? TITLE OF INVENTION: MANGLEDSDOOF Ph.D., JAVUO J.  
 ? NUMBER OF SEQUENCES: ONE MS., ESTERILIA S.  
 ? ADDRESSEE: CRO Ph.D., ANTHONY E.

1 APPLICANT: BROOME, PH.D., VINCENT MN  
 2 APPLICANT: GIBBER, PH.D., VINCENT MN  
 3 APPLICANT: YAO M., TSO PANG MN  
 4 TITLE OF INVENTION: NOVEL RECEPTORS  
 5 NUMBER OF SEQUENCES: 14  
 6 ADDRESS: 444 So. Flower St., Suite 2000  
 7 CITY: Los Angeles  
 8 STATE: CA  
 9 COUNTRY: US  
 10 ZIP: 90071-2921  
 11 COMPUTER READABLE FORM:  
 12 MEDIA TYPE: floppy disk  
 13 SOFTWARE: 100 pc compatible  
 14 OPERATING SYSTEM: pc DOS/MS DOS  
 15 CURRENT APPLICATION DATA:  
 16 APPLICATION NUMBER: US/08/444,694  
 17 FILING DATE:  
 18 CLASSIFICATION: 435  
 19 PRIOR APPLICATION DATA:  
 20 APPLICATION NUMBER: US/07/761,008  
 21 FILING DATE:  
 22 ATTORNEY/AGENT INFORMATION:  
 23 NAME: Robert Ph.D., Stephen E.  
 24 REGISTRATION NUMBER: 41192  
 25 REFERENCE/BOOK NUMBER: P41 8946  
 26 TELEPHONE: (619) 545-9001  
 27 TELEFAX: (619) 545-8949  
 28 INFORMATION FOR SEQ ID NO: 1:  
 29 SEQUENCE CHARACTERISTICS:  
 30 LENGTH: 440 amino acids  
 31 TYPE: amino acid  
 32 PROPERTY: Lipid  
 33 MOLECULE TYPE: protein  
 34 US 08 444 694 B  
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1 NUMBER OF SEQUENCES: 14  
 2 ADDRESS: 444 So. Flower St., Suite 2000  
 3 CITY: Los Angeles  
 4 STATE: CA  
 5 COUNTRY: US  
 6 ZIP: 90071-2921  
 7 COMPUTER READABLE FORM:  
 8 MEDIA TYPE: floppy disk  
 9 SOFTWARE: 100 pc compatible  
 10 OPERATING SYSTEM: pc DOS/MS DOS  
 11 CURRENT APPLICATION DATA:  
 12 APPLICATION NUMBER: US/08/444,694  
 13 FILING DATE: 05 JUN 1995  
 14 CLASSIFICATION: 435  
 15 PRIOR APPLICATION DATA:  
 16 APPLICATION NUMBER: US/07/761,008  
 17 FILING DATE: 17 SEP 1991  
 18 ATTORNEY/AGENT INFORMATION:  
 19 NAME: Robert Ph.D., Stephen E.  
 20 REGISTRATION NUMBER: 41192  
 21 REFERENCE/BOOK NUMBER: P41 8946  
 22 TELEPHONE: (619) 545-9001  
 23 TELEFAX: (619) 545-8949  
 24 INFORMATION FOR SEQ ID NO: 1:  
 25 SEQUENCE CHARACTERISTICS:  
 26 LENGTH: 440 amino acids  
 27 TYPE: amino acid  
 28 PROPERTY: Lipid  
 29 MOLECULE TYPE: protein  
 30 US 08 444 694 B  
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CITY: Los Angeles  
 STATE: CA  
 COUNTRY: US  
 ZIP: 90071-2921  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/694,501  
 FILING DATE: 07-AUG-1996  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/333,358  
 FILING DATE:  
 APPLICATION NUMBER: US/07/761,068  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Reiter Ph.D., Stephen E.  
 REGISTRATION NUMBER: 31192  
 REFERENCE/PACKET NUMBER: P41 8936  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (619) 535-9001  
 TELEFAX: (619) 535-8949  
 INFORMATION FOR SEQ ID NO: 8:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 440 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US 08-694-501-8

Query Match	15.6%	Score	239	DB 1	Length	440			
Best Local Similarity	41.8%	Pred. No.	1,98	17					
Matches	62	Conservative	47	Mismatches	76	Indels	10	Gaps	6

[illegible]

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1  RESULT 21
2  US-08-373 945-1
3  Sequence 1, Application US/08373945
4  Patent No. 5747661
5  GENERAL INFORMATION:
6  APPLICANT: Evans, Ronald M.
7  APPLICANT: Mangelsdorf, David J.
8  APPLICANT: Willy, Patricia J.
9  TITLE OF INVENTION: IDENTIFICATION OF A DISTINCT
10 TITLE OF INVENTION: RETINOID-RESPONSIVE PATHWAY AND USES THEREOF
11 NUMBER OF SPOUBNRES: 7
12 CORRESPONDENCE ADDRESS:
13 ADDRESSEE: Proity, Schroeder, Broggemann & Clark
14 STREET: 444 South Flower Street, Suite 2000
15 CITY: Los Angeles
16 STATE: CA
17 COUNTRY: USA
18 ZIP: 90071
19 COMPUTER READABLE FORM:

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1 MEDIUM TYPE: Floppy disk
2 COMPUTER: IBM pc compatible
3 OPERATING SYSTEM: PC-DOS/MS-DOS
4 SOFTWARE: Patcon Database #1.0, Version #1.25
5 CURRENT APPLICATION DATA:
6 APPLICATION NUMBER: US/08/473,935
7 FILING DATE:
8 CLASSIFICATION: 435
9 ATTORNEY/AGENT INFORMATION:
10 NAME: Keller, Stephen E.
11 REGISTRATION NUMBER: 31,192
12 REFERENCE/DOCKET NUMBER: P41 9894
13 TELECOMMUNICATION INFORMATION:
14 TELEPHONE: 619-546-4737
15 TELEFAX: 619-546-4737
16 INFORMATION FOR SEQ ID NO: 1:
17 SEQUENCE CHARACTERISTICS:
18 LENGTH: 447 amino acids
19 TYPE: amino acid
20 TOPOLOGY: linear
21 MOLECULE TYPE: protein
22
23 US-08-373-935-1
24
25 Query Match: 15.6%; Score 239; pos 1; Length 447;
26 Best Local Similarity: 31.8%; pred. NO.1,90-17;
27 Matches 62; Conservative 47; Mismatches 76; Indels 10; Gaps
28 42;

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[illegible]

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1  RESULT 2.2
2  US-08 456-120-2
3  Sequence 2, Application US/08466120
4  Patent No. 5869284
5  GENERAL INFORMATION:
6  APPLICANT:  CMO, ET AL.
7  TITLE OF INVENTION:  Retinoid Acid Receptor Epilium
8  NUMBER OF SEQUENCES:  4
9  CORRESPONDENT'S ADDRESS:
10 ADDRESSSEE:  GARRELLA, RYANR, RAIN, GILLILLAN,
11 ADDRESSSEE:  GYOCCH, STEWARD  & OLSTEIN
12 STREET:  6 HECKER FARM ROAD
13 CITY:  ROSELAND
14 STATE:  NEW JERSEY
15 COUNTRY:  USA
16 ZIP:  07068
17 COMPUTER READABLE FORM:
18 MEDIUM TYPE:  3.5 INCH DISKETTE
19 COMPUTER:  IBM PS/2
20 OPERATING SYSTEM:  MS-DOOS
21 SOFTWARE:  WORD PERFECT 5.1
22 CURRENT APPLICATION DATA:
23 APPLICATION NUMBER:  US/08/456,120
24 FILING DATE:  June 6, 1995
25 CLASSIFICATION:  435
26 PRIOR APPLICATION DATA:
27 APPLICATION NUMBER:  PCT/US94/07266
28 FILING DATE:  24 JUN 94
29 ATTORNEY/AGENT INFORMATION:

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STATE: CA
COUNTRY: USA
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/469,721
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/372,183
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Reiter, Stephen E.
REGISTRATION NUMBER: 31,192
REFERENCE/DOCKET NUMBER: P41 9844
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-546-4737
TELEFAX: 619-546-9492
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 469 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-469-721-2

Query Match      15.1% Score 231.5; DB 4; Length 469;
Best Local Similarity 32.5%; Pred. No. 1,36-16;
Matches 67; Conservative 42; Mismatches 80; Indels 17; Gaps 9;

QY 94 KEISLPH--MAIMSTYMKGIISPAKVIYERDLP1EQJSLKGAFFELQURENT 150
DB 272 KEESAEENFLILEMAISHVQILVEFTKRLPGFOTLDEHDIALLKSAVAMLRSAE 341
QY 151 VFNAE- TGTEWCGRLSYCLDTAGGQVALLFEMLKPFHMKKLOJHEEYVLMQVSL 208
DB 332 IFNKKLIDYTCMKKEE--ERAASPMR--YITPMSPYSKSGVGLKMGDEVALIAIVT 387
QY 209 FSPRPVYLOHRYVQLOEOPALITKSYIEGCRPO-PAHRELFELKIMAMTELRSINAOH 267
DB 388 LSPROYIKREAVKKELOEPLADVQKICKYQVFNQH--FACILGRLLHLEKTFNNHH 444
QY 268 TQRL--RIQDHPFATPMQELPGI 291
DB 445 AEMLSMRVND HKF-TLDELTMIV 468

RESULT 30
US-09-696-443-2
Sequence 2, Application US/09696443
Patent No. 6416957
GENERAL INFORMATION:
APPLICANT: Evans, Ronald M.
Forman, Barry M.
Weidenberg, Gary A.
TITLE OF INVENTION: METHOD FOR MODULATING PROCESSES MEDIATED
BY FARNESOID ACTIVATED RECEPTORS
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Preilly, Schroeder, Brueggemann & Clark
STREET: 444 South Flower Street, Suite 2000
CITY: Los Angeles
STATE: CA
COUNTRY: USA
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

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SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/696,443
FILING DATE: 24-Oct-2000
CLASSIFICATION: (unknown)
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/372,183
FILING DATE: (unknown)
ATTORNEY/AGENT INFORMATION:
NAME: Reiter, Stephen E.
REGISTRATION NUMBER: 31,192
REFERENCE/DOCKET NUMBER: P41 9844
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-546-4737
TELEFAX: 619-546-9492
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 469 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-696-443-2

Query Match      15.1% Score 231.5; DB 4; Length 469;
Best Local Similarity 32.5%; Pred. No. 1,36-16;
Matches 67; Conservative 42; Mismatches 80; Indels 17; Gaps 9;

QY 94 KEISLPH--MAIMSTYMKGIISPAKVIYERDLP1EQJSLKGAFFELQURENT 150
DB 272 KEESAEENFLILEMAISHVQILVEFTKRLPGFOTLDEHDIALLKSAVAMLRSAE 341
QY 151 VFNAE- TGTEWCGRLSYCLDTAGGQVALLFEMLKPFHMKKLOJHEEYVLMQVSL 208
DB 332 IFNKKLIDYTCMKKEE--ERAASPMR--YITPMSPYSKSGVGLKMGDEVALIAIVT 387
QY 209 FSPRPVYLOHRYVQLOEOPALITKSYIEGCRPO-PAHRELFELKIMAMTELRSINAOH 267
DB 388 LSPROYIKREAVKKELOEPLADVQKICKYQVFNQH--FACILGRLLHLEKTFNNHH 444
QY 268 TQRL--RIQDHPFATPMQELPGI 291
DB 445 AEMLSMRVND HKF-TLDELTMIV 468

RESULT 31
PCT-0895-17023-2
Sequence 2, Application PCT/US9517023
GENERAL INFORMATION:
APPLICANT: Evans, Ronald M.
Forman, Barry M.
Weidenberg, Gary A.
TITLE OF INVENTION: METHOD FOR MODULATING PROCESSES MEDIATED
BY FARNESOID ACTIVATED RECEPTORS
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Preilly, Schroeder, Brueggemann & Clark
STREET: 444 South Flower Street, Suite 2000
CITY: Los Angeles
STATE: CA
COUNTRY: USA
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/17023
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Reiter, Stephen E.

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2        ApplicationID)
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5        ApplicationName)
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NAME/KEY: DOMAIN  
 LOCATION: (211)-(461)  
 OTHER INFORMATION: minimal ligand binding domain  
 US-08-960-115-3

Query Match 14.98; Score 228; DB 4; Length 461;  
 Best Local Similarity 27.78; Pred. No. 3,16-16;  
 Matches 72; Conservative 41; Mismatches 126; Indels 28; Gaps 8;

QY 43 ELPEST---QAVSRKAAKWSVVRKDLGSLKVSLLQKEDGVSVMYKPP----- 88  
 DB 203 ELKSGKPEPTDEE---WELL-KVLEAHVATNAQ---GSHWKOKPKFLPEDIGQAVT 255  
 QY 89 --ADSGKGFESLPHMAAMSTYMGKGLISPAKVISYHFDLITLQDLSLKGAFAHVLQ 146  
 DB 256 VNAPEGGKVDLFAESHFKITITVAITRVYDPAKKLPMREELCEQDITLKQGMFIMSL 415  
 QY 147 KENIVNAETGTWEG-GRISYCLEDTAGDQQLLEPMLKPHYMLKKIQIHEEYVIMQA 205  
 DB 316 KAAVYDPESETLLNGEAAVIRGQIKNGGLGVVDAITFDIGMSISFPLIDTFVALLQA 475  
 QY 206 ISLSPDRGVQJHRVVDLQDFALTLKSYLECNRPVAFHFLKIMAMTELRSINA 265  
 DB 376 VLLMSDRGLACVSEKIEKYDSFLAFEDHYINRKHNVTH--FWKILMKVTDLRMIGA 433  
 QY 266 QHTQRLRIQDILHP--FAITLMQELP 289  
 DB 434 CHASRFLMKKVECTFLPLFLFV 459

RESULT 34  
 5223606-4  
 Patent No. 5223606  
 APPLICANT: BLAUDIN DE THE, HUGHES; MARCHIO, AGNES; TIOUATS,  
 PIERRE; DEJEAN, ANNE  
 TITLE OF INVENTION: STEROID/THYROID HORMONE RECEPTOR-RELATED  
 PROTEIN INAPPROPRIATELY EXPRESSED IN HUMAN HEPATOCELLULAR CARCINOMA  
 NUMBER OF SEQUENCES: 11  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/07/134,130  
 FILING DATE: 17-DEC-1987  
 PRIOR APPLICATION DATA:  
 SEQ ID NO: 4:  
 LENGTH: 455  
 5223606-4

Query Match 14.98; Score 219; DB 6; Length 355;  
 Best Local Similarity 26.78; Pred. No. 2e-15;  
 Matches 71; Conservative 41; Mismatches 126; Indels 28; Gaps 8;

QY 43 ELPEST---QAVSRKAAKWSVVRKDLGSLKVSLLQKEDGVSVMYKPP----- 88  
 DB 97 ELKSGKPEPTDEE---WELL-KVLEAHVATNAQ---GSHWKOKPKFLPEDIGQAVT 149  
 QY 89 --ADSGKGFESLPHMAAMSTYMGKGLISPAKVISYHFDLITLQDLSLKGAFAHVLQ 146  
 DB 150 VNAPEGGKVDLFAESHFKITITVAITRVYDPAKKLPMREELCEQDITLKQGMFIMSL 409  
 QY 147 KENIVNAETGTWEG-GRISYCLEDTAGDQQLLEPMLKPHYMLKKIQIHEEYVIMQA 205  
 DB 210 KAAVYDPESETLLNGEAAVIRGQIKNGGLGVVDAITFDIGMSISFPLIDTFVALLQA 475  
 QY 206 ISLSPDRGVQJHRVVDLQDFALTLKSYLECNRPVAFHFLKIMAMTELRSINA 265  
 DB 270 VLLMSDRGLACVSEKIEKYDSFLAFEDHYINRKHNVTH--FWKILMKVTDLRMIGA 433  
 QY 266 QHTQRLRIQDILHP--FAITLMQELP 289  
 DB 328 CHASRFLMKKVECTFLPLFLFV 459

RESULT 35  
 US-08-953-648A-14

Sequence 14; Application US/08653648A  
 Patent No. 6379645  
 GENERAL INFORMATION:  
 APPLICANT: Jepson, Jan  
 APPLICANT: Greenland, Andrew  
 APPLICANT: Martinoz, Alberto  
 TITLE OF INVENTION: A Gase Switch  
 FILE REFERENCE: PP/50047/US  
 CURRENT APPLICATION NUMBER: US/08/653,648A  
 CURRENT FILING DATE: 1996-05-24  
 PRIOR APPLICATION NUMBER: GB 9510759.5  
 PRIOR FILING DATE: 1995-05-26  
 PRIOR APPLICATION NUMBER: GB 9605656.9  
 PRIOR FILING DATE: 1996-03-18  
 PRIOR APPLICATION NUMBER: GB 9513882.2  
 PRIOR FILING DATE: 1995-07-07  
 PRIOR APPLICATION NUMBER: GB 9517316.7  
 PRIOR FILING DATE: 1995-08-24  
 NUMBER OF SEQ ID NOS: 65  
 SOFTWARE: Patent In version 3.0  
 SEQ ID NO 14  
 LENGTH: 674  
 TYPE: PRT  
 ORGANISM: Aedes aegypti  
 US-08-653-648A-14

Query Match 13.78; Score 210; DB 4; Length 674;  
 Best Local Similarity 26.88; Pred. No. 4.7e-11;  
 Matches 79; Conservative 56; Mismatches 119; Indels 42; Gaps 11;

QY 21 TDTTFSEKNERIGVSSQTEPESTQAV-SREKAAKWSVVRKDLGSLKVSLLQKED 79  
 DB 287 TVSTINSTRSFLTLTLMK--CDPPHQDITPLIPKILQENKLN--ITLLANQMAVIT 442  
 QY 80 GSWV---NYKPAVSGKGFESLTP-----IMAMSTYMGKGLISPAKVISYF 124  
 DB 343 KLIWQVQNPQSEDELEKRMIGSPNEEDQDVPKHEITLITLVLEFAKGLPAP 402  
 QY 125 RLITPEQDLSLKGAFAELQGLRNTVNAETGT-WRSGKISYCLEDTAGDQQLLEP 183  
 DB 403 TKLPQETQITLKACSSVMMILMKARKYDAVDSITLFANNKSYTQSTRMAMATITVQ 462  
 QY 184 LKHFMKKIQIHEEYVIMQALISLSPDRGVQJHRVVDLQDFALTLKSYLECN 241  
 DB 463 LAFCKQMSLVDNVAFTALTAIVFS-DROGLHAFELVEHQSYITLRIYTLNHA 520  
 QY 242 POPAHPFLKIMAMTELRSINAQHTQ-----RLK-----IQDILHP 279  
 DB 521 GPKGSVIFAKLSTIEIRLIGNONSMGCSLKKNKKLRFLEIMVQDILPP 575

RESULT 36  
 US-08-764-870-2  
 Sequence 2; Application US/08764870  
 Patent No. 6236946  
 GENERAL INFORMATION:  
 APPLICANT: Scudlan, Thomas S  
 APPLICANT: Baxter, John D  
 APPLICANT: Fletcher, Robert J  
 APPLICANT: Wagner, Richard L  
 APPLICANT: Kusnot, Peter J  
 APPLICANT: Apolloni, James W  
 APPLICANT: West, Brian  
 TITLE OF INVENTION: Nuclear Receptor Ligands and Ligand  
 NUMBER OF SEQUENCES: 16  
 CORRESPONDENCE ADDRESS:  
 ADDRESS: Gooley Godward  
 STREET: Five Palo Alto Square, 4000 El Camino Real  
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 STATE: CA  
 COUNTRY: USA  
 ZIP: 94306







